DEPARTMENT OF THE AIR FORCE

SUBMITTED TO CONGRESS FEBRUARY 1985





Aircraft Procurement, Air Force

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DEPARTMENT OF THE AIR FOR S

AURCRAFT PROCUREMENT, AUR FORGE

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Appropriation Language]
Basic Program & Financing.	
Basic Object Classification	4
Program & Financing:	
1982 Fiscal Jear Program	5
1983 Fiscal Year Program.	6
1984 Piscal Year Program	7
1985 Fiscal Year Program	8
1986 Fiscal Year Program.	9
Budget Activity Justification:	
Combat Aircraft	18
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Modification of In-Service Aircraft	17
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Aircraft Support Equipment & Pacilities.	
Comparison of FY 1984 Program Requirements and Pinancing.	
Comparison of FY 1985 Program Requirements and Financing	
Flight Simulator Procurement Program.	
Modification of Aircraft - Detailed Justification	

t provides justification of his Force budget established for FYEL

AIRCRAFT PROCUREMENT, AIR FORCE

For construction, procurement, and modification of aircraft and equipment, including armor and armament, specialized ground handling equipment and training devices, spares parts, and accessories therefor; specialized equipment; expansion of public and private plants, Covernment-owned equipment and installation thereof in such plants, erection of structures, and acquisition of land, for the foregoing purposes, and such lands and interests therein, may be acquired, and construction prosecuted thereon prior to the approval of title; reserve plant and Government and contractor-owned equipment layaway; and other expanses necessary for the foregoing purposes including rents and transportation of things; \$25,165,566,688, to remain available for obligation until September 30, 1988 (5 U.S.C. 3109; 18 U.S.C. 2271-79; 2353, 2386, 2663, 2672, 2672a, 8812, 8862, 9581-82, 9581-32, 9741-42; 31 U.S.C. 649c, 718; 58 U.S.C. 451, 453, 455; Department of Defense Appropriation Act, 1985, additional authorizing legislation to be proposed).

Tete.

Aircraft Procurement, Air Force Program and Financing (in Thousands of dollars)

04 Feb 85

			5. dget Plen (exounts for PRSCUREMENT ections programed)			Obligations		
I dens ! f	lestion code	57-3010-0-1-051	1964 ectual	1335 est	1986 est	1984 actual	1985 est	1986 #81
	Program by act	vities				•••••		
	Cirect progra							
00 0101			10,088,430	12,710,400	11,639,800	9,367,473	11,606,698	11,524,18
00 9201			1,526,400	1,932,000	2,436,900	1,512,929	1 732,115	2,120,57
CO 0301			\$,078	126,000	206,100	5,800	93,714	171,73
00 0401			172,400	219,800	540,000	155,953	207,336	457,19
00 6601		on of inservice sircraft	2,703,900	3,074,735	2,917,817	1,993,894	3,484,959	3,129,20
00 0601		peres and repair parts	4,599,100	5,325,900	4,934,561	4,561,005	5,070,598	4,897,18
00 0701	Aircraft at	upport equipment and facilities	2,221,610	2,688,981	3,490,302	1,865,758	2,622,543	3,291,26
00 9101	Yotal direc	rengong J	21,317,915	26,078,066	26,165,300	19,462,8*2	24,823,163	25,591,44
01 0101	Pelnbure	sole progrem	135,089	279,020	290,110	214,940	328, 136	297,91
10 0001	Total		21,513,004	26,357,086	26,455,610	19,677,192	25, 151, 299	25,889,35
	Financing							
		ollections from						
11 0001			-111,643	-36,500	-37,714	-113,346	-36,500	-37, 71
13 000			-53,327	-213,020	-223, 235	-8,163	-213,020	-222, 38
14 0001	Nun-Federa	l mourche(+)	-119	-29,500	-29, 311	-182	-29,500	-29,01
17 0001	Recovery of	prior year obligations(-;				-259,556		
		selence evellable, story of year						
21 4002		tion of prior year budget plans				-6,081,806	-7, 939, 581	-9,145,34
21 4003	Available :	to finance new budget planz	-323,100	-15,500		-323,100	-15,50C	
21 4007	Reprogrami	ng from/to prior year budget p'e	-164,215					
22 4001	Unobligated t	belence transferred, net	8,000	15,500		6,000	15,500	
		belence evailable, and of year						
24 4002		tion of prior year budget plans				7,939,361	9,148,348	9,711, 8
24.4003		to finance subsequent year budge	15,560			15,500		
27 0001	Unobligated (belence lessing	461,315			48" 315		
39 0001	Budget a	uthority	21,303,413	25 078.055	26,185,500	21,333,415	26,078,165	26,165,50
	Budgen author	itv	•••••••				•••••	
40 0001			21,080,110	26, 188, 265	26,165,500	21 080,110	25,180,256	26, 168, 50
41 0001		d to other accounts(-)	-69,795	-110,200	,,,,	- 59, 795	-110,200	
43 0001	Approprie	stion (adjusted)	21.010.315	25 078,068	26,165,500	21,010,315	28.078.068	26,165,50

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Aircraft Procurement, Air Force rogram and Financing (in Thousands of dollars

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04 Feb 85

				
Identifi	ication code 57-3010-0-1-051	1984 actual	1985 est	1986 est
R	Relation of obligations to outlays	***************************************		
71 0001	Spligations incurred, net	19,555,501	24,872,279	25,599,249
72 4001	Spligated belence, start of year	17,485,385	23,706,487	33,260,646
74 4061	Spligated balance, and of year	-23,706,487	-33,260,646	-40,537,285
77 0001	Adjustments in expired accounts	-84,012		
78 0001	Adjustments in unexpired accounts	-259,558		
		*********	*	
90 0001	Outleys	12,981,850	15,318,100	18,322,600

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Aircreft Procurament, Air Force Object Cleasifization (in Thousands of dollars) 04 500 85 identification code 57-3010-0-1-051 1984 actual 1985 sat (984 hat Direct obligations 13 1001 Equipment 19 462,232 24,823,163 25,591,445 19,462,852 24,823,163 25,591,445 12 SOC1 Total Direct coligations Reinburseble obligations 23 1001 Equipment 297, 914 214,360 528,176 29 9001 Total Reinbursable obligations 214,340 328,136 297,914 19,877,192 25,151,29% 25,860 15 99 9901 Total obligations

Africant Du Feb 85
Program and Financing (in Thousands of dollars) FISCAL FEAR 1982 Budget Plan (amounts for GROCUREMENT Colligations actions programed)
1984 actual 1985 est 1986 est 1984 actual 1985 est 1986 est Identification code 57-3010-0-1-05;

Program by estivities
Direct program
GO 3101 Gonbat sircheft
00 0201 Ainlift sircheft
00 0401 Other sircheft
00 0501 Modification of Insonlice sircheft
00 0501 Aincheft support and facilities
00 0701 Aincheft support equipment and facilities 559,631 3,909 16,061 283 117 532,019 107,543 00 0101 00 0201 00 0401 00 0501 00 9501 00 0701 00 2101 lotal direct progress 1,452,366 11,313 01 0101 Raimbunanole program Total 10 0001 1,493 705 Financing
Offsetting collections from
Fetenel funds(-)
Trust funds(-)
Non-fadenel scurces(-)
Recovery of prior year obligations(-)
Unobligates belience weeklable, stant of year
For completion of prior year budget plans
Available to finance new budget plans
Reprograming from/to prior year budget plans
Unobligates belience transferred, net
Unobligated belience labsing 11 0001 13 0001 14 0001 7 0001 1,042 64,693 21 4002 21 4003 2 4007 22 4001 385,476 -12 900 -12,900 -154,215 -18,900 -158,215 18,900 25 0001 Sudget eutnority 34 0001 5uc

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Aircraff Procurament, Air Fonce 04 Feb 45
Program and Financing (in Thousands of dollars) FISCAL YEAR 1963
Budget Plan (amounts for PROCUREMENT Obligations | 1984 actuel | 1985 ast | 1986 ast | 1980 actual | 1985 ast | 1986 ast Identification code 57-3010-0-1-051 Program by activities
Direct program
Combat aircraft
Airlift aircraft
Modification of Inservice aircraft
Aircraft spares and repair parts
Aircraft spares and repair parts
Aircraft spares opvionent and facilities 00 0101 00 0201 00 0401 00 0501 00 0601 00 0701 1,130,659 44,636 23,749 234,003 541,339 20,115 753,957 261,802 11,703 469,004 540 031 178,819 05 9101 Tetal cinact program 2,20-,501 2, 235, 316 01 0101 100 695 64,532 Reimburgable phopiem 10 0001 2,310,196 2,299 848 Financing
Offsetting collections from
Federal funds(-)
Trust funds(-)
Non-Federal sources(-)
Recovery of prior year obligations(-)
Unobligated balance evailable, stant of year
For completion of prior year budget plans
Available to finance new budget plans
Unobligated painned transferied, hat
Unobligated balance evailable, end of year
For completion of prior year budget plans
For completion of prior year budget plans 1: 6001 -2 745 10 271 13 0001 14 0001 17 6001 -124,162 21 4002 21 4003 4 493,33) -2,299,848 -3.0.200 -310,200 310,200 22 4001 2,229 646 24 4002 39 0001

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Avia of Propursment, Air Force Program and Pinancing (in Thouserds of dollars)

04 Feb 85 FISCAL YEAR 1984

	Sudget . (whounts for PROCUREME sollway to consense)			T Obligations		
Identification code 57-3010-0-1-051	1984 octue:	1235 est	1986 est	1984 antuel	1985 est	1986 est
Progree by activities						
Direct program						
00 0101 Lombac eincreft	10 088,430			7,667,183		1,005,926
00 0201 Airlift mircraft	1 526,400			1,464,295	15, 803	26,302
00 030: Theiner excepts	6,075			5,800	159	116
00 0401 Sther strongs	172,400			116,143	32, 432	23,825
	2,703,900			1,476,774	717,927	509, 199
00 0601 Aircraft spares and napain parts	4,599,100			3,517,647	623,438	457,995
00 0701 Aircreft support equipment and facilities	2,221,810			1,528,143	399,784	293,883
00 9101 Total direct program	21 317,915		****	15,775,985	3,224,884	2,317,046
01 0101 Reinbursable progrem	195,089			97,306	56,431	41,352
10 Oud: Total	21,513 604			15, 673, 291	3,281,315	2,358,398
Finencing						
Offsetting collections from						
11 6591 Federal funds(+)	-111,643			-111,643		
13 000' Trust funds(-)	-63,327			53, 327		
14 0001 Non-Federal sounces(-)	-119			-119		
Unobligated balance systlable start of year						
21 4002 For completion of prior year budget plans		1.0.000			-5,639,713	-2,356,398
21 4003 Aveilable to finance new pudget plens	868 188	-15 500			-15,500	
22 4001 Unobligated belence transferred, net Unobligated belence evalleble, and of year	-323,100	13 500		-323,100	15,500	
24 4002 For completion of prior year budget plans				5,639,713	2,358,398	
24 4003 Aveileble to finance subsections year budge				13,500		
25 0001 Unobligated belence lapsing	323,100			323,100		
39 0001 Sudget sucherity	21,000,415			21,333,415		
*			• • • • • • • • • • • • • • • • • • • •			
Budger suthority						
40 0001 Appropriation	21,080,110			21,080,110		
41 9001 Transferred to other adcounts(-)	-69, 795			-69,795		
43 0001 Appropriation (adjusted)	21,0.0,315			21,010,315		
50 0001 Responspriation	323,100			323 100		

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Aircreft Procurement, Air Force Progrem and Financing (in Thousands of dollars) 04 Feb 85 FISCAL YEAR 1985 Budget Plan (amounts for PROCUREMENT scrions programed) Soligations Identification code 57-301C-0-1-051 1984 actual 1985 ast 1986 wst 1984 actuar 1985 est 1986 est Program by ectivities
Direct program
Combet sincraft
Afrift aircraft
Trainer sincraft
Other sinuraft
Modification of inservice sincraft
Aircraft spanss and repair parts
Aircraft support equipment and facilities 12,710,600 1 932,000 126,000 219,800 3,074,785 5,325,900 2,688,981 1,874,813 284,970 18,585 32,421 453,531 776,160 406,035 9,437,620 1,434,510 93,555 163,201 00 0101 00 0201 00 0301 00 0401 00 0501 00 0601 00 0701 2,283,028 3,907,109 2,043,940 00 9101 Total direct program 26,078,066 19,362,963 2,816,515 279,029 41,135 01 0101 Reinbursable anognem 207,173 10 0001 Total 26,357,086 19,570,136 3,887,670 Financing imancing
Offsatting collections from
Faderal funds(-)
Trust funds(-)
Non-Faderal sources(-)
Unobligated balance available, start of year
For completion of prior year budget plans
Unctligated balance available, end of year
For completion of prior year budget plans 11 0001 36,500 -36,500 13 0001 -213,020 -29,500 -213,020 -29,500 21 4002 -6,786,950 24 4002 6,785,950 2,899,280 26,078,066 Budget authority Sudget authority

Appropriation

41 0001

43 0001

Transferred to other accounts(-)

Appropriation (adjusted)

8

26,186,266 -10,200

26,778,086

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26,188 266 -110,220

26,078 066

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	Aircraft Procurement, Air Force Program and Financing (in Thousands of dollars)					C4 Feb 85 Fiscal yea		
••				(arpunts for s projumed)	- PROCUREMENT	5511	getions	
l de	int if	cation code 57-3016-0-1-051	1984 actual	1985	1986 est	1964 actual	1985 est	1986 #31
•		Program by activities		• • • • • • • • • • • • • • • • • • • •				
		Direct program						
	0101	Combet mircreft			11,639,800			8,643,445
	0201	Ainlift sinoraft			2 436,900			1,809,398
	0301	Trainer sincreft			206,100			153,029
	0401	Other mircreft			540,000			400,950
	050'	Modification of inservice aircraft			2,917,817			79ء, 166, ہے
	0601	Aircraft spares and repair parts			4,934,581			3,663,034
00	0701	Aircraft support equipment and facilities			0,490,302			2,591,549
00	9101	Total direct program	••••••		26,165,500	••••••••••		19,427,584
21	0101	Reimbursable program			290, 110			215,407
	0001	Total		•••••	20 455 610		•••••	10 640 001
10	000,	IOTEI			26,455,610			19,643 291
		Financing						
		Offsetting collections from						
11	0201	Federal funds(+)			-37,71=			-37 714
13	0001	Trust funds -)			-223,385			-223,385
14	0001	Non-Federal sources(-)			-29,011			-29,011
		Unobligated balance available, and of year						
24	4002	For completion of phiom year budget plans						6,812,319
			•••••					
40	0001	Budget authority (Appropriation)			26, (65,500			26 165,500

(In Incusands of Dollars)

Program Requirement - TY 87 ... \$ 5,825,300
Program Requirement - TY 86 ... 11,639,800
Program Requirement - FY 85 ... 12,710,600
Program Requirement - FY 84 ... 10,088,436

ACTIVITY: Combat Aircraft

PART I PURPOSE AND SCOPE

This activity provides for the procurement of new aircraft, associated flight simulation devices, and other peculiar training and support equipment for modernization of the U.S. comba: forces and to improve the efficiency of training programs.

Combat aircraft are required to attain and maintain air superiority, interdict enemy supply lines, provide reconnaissance of enemy forces, and furnish close air support to ground forces. The aircraft can be used to counter a variety of threats and offer options of response ranging from the use of diversified conventional weapons through, in the case of U.S. forces, a variety of nuclear wealons.

The FY 1986 and FY 1987 programs include funds for the procurement of ACM Integration. B-18, F-15, F-16, MC-189H, KC-189A, and E-3A production shut-down costs. The programs also include funds for procurement of flight simulations for F-15 and F-16 aircraft. The B-18, KC-189A, and F-16 requests incorporate the continuation of multiyear procurement efforts.

PART IL JUSTIFICATION OF FUNDS REQUESTED

The FY .986 and FY 1987 funding requirements for procurement or combat aircraft, related support items, and advance procureme t in support of the following year's prigram are: FY 1986 - \$11,639.8 million; FY 1987 - \$5,825.3 million. Details are as follow:

ACM Integration (FY 1986 - S122.8 million):

The Advanced Cruise Missile (ACM) is an air launched, long range, accurate, nuclear armed air-to-ground cruise missile planned for use on the bomber force. As one of the many weapons in the manned bomber's arsenal, the ACM stresses the enemy defense, provides long range hard target kill capability, and enhances the manned bomber's effectiveness and flexibility. The ACM provides for substantial improvements in range, survivability, accuracy, and targeting flexibility.

B-1B (FY 1986 - 48 aircraft S5.461.8 million),

The L-lB is a strategic mc'ti-role weapon system which maximizes range and payloud capabilities, and is able to perform the mission of conventional burber, cruise missile launch platform, and nuclear weapons delivery system in both the tactical and strategic roles. Production of the B-lB addresses U.S. requirements to increase our targeting flexibility, to redress the relative decline of our strategic capabilities, and to revitalize our strategic deterrent. The B-lB program retains the important military characteristics of the manned bomber by modernizing the element of the strategic TRIAD capable of seeking out and destroying imprecisely-located, highly-valued targets. The combination of B-lP's higher penetrating speed, reduced radar cross-section, and advanced electronic countermeasures will make it capable of serving as a penetrating bomber well into the 1998s when the Advanced Technology Bomber is projected to become available. Additionally, introduction of the B-lB retains in one am of the

U.S. strategic forces an accurate, global, non-nuclear capibility which preserves our flexibility to adapt to unforeseen contingencies with a timely and economic projection of power. The B-1B will be capable of performing the conventional bomber and cruise RIFALLE carrier mission well into the rext century. This request is for the continuation of a multiyear producement program approved by Congress. This multiyear producement will generate the necessary savings to ensure that the B-1B program of 188 airclaft, related initial states, and research, development, test and evaluation can be achieved within \$28,530.8 million (FY 1981 collars)

P-15C/D/Z (FY 1986 - 48 aircraft, \$2.138.9 milim: FY 1987 - 48 aircraft, \$2.192.2 million):

The F-15 is a twin engine, single crew, fixed swept wing aircraft designed specifically for high maneuverability in air-to-air combat. The F-15 is the first U.S. fighter aircraft to possiss a takeoff thrust-to-weight ratio greater than one-to-one. Its two Pratt & Whitney F100 turbofen engines are each capable C. thrust in the 25,000 lo. class. The F-15's low wing loading, the ratio of aircraft weight to its wing area, in combination with its high thrust-to-weight ratio, enables the F-15 to turn very tightly without losing air speed. The F-15's clean wing, with inboard flaps and outboard ailerons, provides the most efficient minimum-drag configuration at high lift in the transonic sreed range. The F-15 is able to reach a dash speed of Mach 2.5. It is equipped with a balanced mix of medium and short range missiles and a rapid firing 20mm cannon. The avionics system includes an advanced radar, a visual head-up display, and an automatic tuilt—in test system. Air-to-air tasks include continental air defense, combat air patrol, escort and fighter sweeps in or out of the enemy's ground—controlled intercept controlment. It has replaced the F-6E as the primary air superiority fighter in the force structure. The F-15 has the maneuverability, armament, and fire control needed to surpass the expected capability of memy aircraft in the 1980s. The E model has been selected as the Air Force Dual Role Fighter. Procurement of 40 F-15 C/D and 8 F-15 E aircraft is requested in FY 1986.

F-16C/D (FY 1990 180 arroraft, \$3,989.8 million; FY 1987 - 180 arroraft, \$3,463.7 million):

The F-16 is a single engine, lightweigh, high performance, multi-mission fighter capable of performing a broad spectrum of tactical air warfare tasks. The design characteristics of the F-16 are such as to permit high sortic rates with rapid turn around, minimum manpower/logistics burden, and exceptional air combat maneuvering performance, coupled with a potent air-to-ground weapons delivery capability. The U.S. Air Force plans to buy a total of 2,651 F-16s through PY 1992 to replace aging F-4s and to modernize the Air Reserve Forces. The F-16 will also enable modernization and standardization of equipment among those allied countries which choose to replace their aging tactical fighter forces with F-16s. This request for 180 aircraft is the first year's duy of the second four-year F-16 multiyear procurement and includes long lead for the 180 aircraft buy in FY 1987.

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RC-18A (Advanced Tapter/Carup Aircraft) (FY 1986 - 12 aircraft, S447.8 million; FY 1987 - 8 aircraft, S124.1 million):

The RC-IBA Advanced Tanker/Cargo Aircraft is a production-like McDonneil Douglas DC-IB modified only as necessary to provide an air refueling capability and to fully exploit the aircraft's cargo carrying potential. It is an aircraft of unique versatility, capable of providing both long range air refueling and airlift support. Its air refueling off-load capability will permit deployment and reinforcement of U.S. military forces without reliance or uncertain intermediate forcign basing rights. Combining its large cargo and fuel off-load potential, the RC-IBA provides a capability to deploy tactical fighter forces and their support equipment simultaneously, ready to fight. Additionally, the RC-IBA will significantly expand U.S. strategic airlift capacity, particularly with respect to long range movement of oversize cargo, when not otherwise involved in air refueling operations. This request is for the fourth increment of a multiyear procurement program for 44 aircraft.

MC-138H (PX 1986 - 1 aircraft, 579.5 million; FX 1987 - 2 aircraft, 5115.4 million);

This aircraft is a medium size transport used for special tactical missions. It is powered by four T56-A-15 turboprop engines. It has a ferry range of approximately 4,290 nautical miles, a service ceiling of 35,900 feet, and a cruise speed of 290 knots. It cargo compartment length, width and height are 41, 18, and 9 feet respectively, and can carry a psyload of 38,900 pounds. The normal crew of seven consists of a pulot, co-pilot, flight engineer, one mavigator, electronic warfare officer, and two loadsmaters. Aircraft features include an integral ramp and cargo door, crew and cargo compartment pressurization, ground and in-flight air conditioning, thermal de-icing system, single-point refueling, and auto pilot. Additional features of this specially modified C-130 are precision navigation, terrain following radar, Electronic Counter Measures (DCR) subsystem and in-flight refueling.

E-3A (FY 1987 - \$19.9 million):

The funds identified in PY 1987 are required for production close-down of the E-3A acquisition program.

(In Thousands of Dollars)

Program Requirement - FY 67 ... \$2,441,769
Program Requirement - FY 66 ... 2,436,999
Program Requirement - FY 65 ... 1,932,899
Program Requirement - FY 64 ... 1,526,468

MITTER: Airlift Aircraft

PART I FURPOSE AND SCOPE

This activity provides for the procurement of new aircraft and support items to continue improvement of the U.S. airlift forces. The FY 1986 and FY 1987 programs include funds for the procurement of C-58, C-28A and C-17 aircraft.

PART II JUSTIFICATION OF FIRES REQUESTED

The FY 1986 and FY 1987 fund requirements for procurement of airlift aurcraft, related support items, and advance procurement funding in support of the following year's program are: FY 1986 - \$2,436.9 million; FY 1987 - \$2,441.7 million. Details are as follow:

C-5B (FY 1986 - 16 aircraft, \$2.26B.1 million: FY 1: - 21 aircraft, \$2.196.8 million):

The C-5 is a service-proven, wide-bodied, intertheater airlift aircraft that can carry the full spectrum of military air cargo. It will have four TF39-GE-IC turbofun engines and updated avionics. It is the world's largest military airlifter; it can onload/offload cargo at truckbed height or ground level at each end of the cargo compartment. Intertheater airlift is required to project and sustain combat forces in an urgent manner. Leficiencies in our airlift capability are documented in numerous studies, including the recently completed Congressionally Mandated Mobility Study. Additional 3-58 procurement will make a substantial near-term improvement in our capability to rapidly reinforce NATO and to meet the mobility needs of the Central Command.

C-28A (FY 1986 - 8 aircraft, \$168.8 million):

The Special Air Mission C-20% aircraft is an FAA Gulfstream III certified business jet aircraft. C-20% capabilities exceed a 2400 nautical mile (NM) unrefueled range with National Business Aircraft Association (NBAA) reserve (2000MM alternate), and will operate from 50000 foct runways with 14 to 18 passengers plus a crew of five in an executive configuration. Useful life will be at least 20 years. The C-20% will not have a combat role, however, during wartime the C-20% will continue to perform support missions into areas that include theaters of war. The C-20% will replace the seven Hilitary Airlift Command (MAC) C-1400 aircraft assigned to the 89th Military Airlift Wing (MAW) at Andrews AFB, MD and the four C-1400 aircraft assigned to the 59th Military Airlift Squadron (MAS) at Rams Lin AB, Germany. The C-1400 is being replaced because of its increasing operating costs. These 1950s vintage airframes and enquies entail high fuel consumption and difficulty in obtaining spare/replacement parts. Its limited passenger capacity and lack of coast-to-coast range have resulted in the forced, inefficient use of the 42 seat C-9 aircraft for a number of missions. The Special Air Mission provides worldwide air transportation for the President and Vice President of the United States, Cabinet members, members of Congress, and other high ranking dignitaries of the United States and foleign governments. In addition to the usual C-1400 missions, the C-20% could be dispatched on overseas missions if the range and passenger requirements do not require the use of the larger C-135s and C-137s.

C-17 (Ff 1987 - Advance Bay, 5344.9 million):

FY 87 funds are for advance buy requirements to support planned procurement of two aircraft in FY 88. The C-17 is a major initiative to improve our rapid deployment capability and correct deficiencies in the current airlift system. The C-17 vill provide the last increment of intertheater airlift capability to reach the minimum level recommended in the Congressionally sandated Mobility Study (66 million ten miles per day). It will provide the lift capability to ment heavy pechanized Army/Marine Corps equipment in-theatre, replace the capability lost from retiring C-136 and C-141 aircraft beginning in the 1998s and sodernize the airlift force. C-17 will seek the airlift needs of the United States and substitutibly increase our force projection capability, both quantitatively and qualitatively.

(In Shousends of Dollars)

Program Requirement - FY 87 ... \$563,200 Program Requirement - FY 86 ... 206,100 Program Requirement - FY 85 ... 126,000 Program Requirement - FY 84 ... 6,875

ACTIVITY: Trainer Aircraft

Part I Burgose and Score

This activity provides for the procurement of new aircraft, associated flight simulation devices, and support equipment required for flight training. The FY 1986 and FY 1987 programs are for procurement of the T-46A and Tanker, Transport, Bosber trainer aircraft.

Part II Justification of Punds Recuested

The FY 1986 and FY 1987 funding requirements for procurement of trainer aircraft, related support items, and advance procurement funding in support of the following year's program are: FY 1986 - \$286.1 million; FY 1987 - \$563.2 million. Details are as follow:

T-65A (Next Generation Trainer) (FY 1986 - 33 aircraft, 5266.1 million; FY 1987 - 95 mircraft, 5547.5 million):

The T-46A program is a development and acquisition effort to replace the operationally deficient T-37 aircraft to ensure continued primary flight training capability through and beyond FY 1986. Exceast increases in USAF pilot training and the fact that the aging T-37 will begin to reach fleet insufficiency around 1986 dictate an Initial Operational Capability for the T-46A in 1987. The essential design characteristics include twin engines, side-by-side seating, and pressurization with significant improvements in performance (range, climb capability, sustained "g"), maintainability, and noise pollution control.

Tenker, Transport, Bouber Trainer (TTRES) (FY 1987 - 1 aircraft, 515.7 million):

The FY 1987 funds purchase one aircraft to begin implementation of specialized undergraduate pilot training in Air Training Command. Following a common primary training program in the T-37/T-46, students will be selected for the Fighter, Attack, Recommaissance (FAR) track and receive basic training in the T-38, or for the TTB track and receive basic training in a TTB trainer. The TTB aircraft is an off-the-shelf corporate jet which will provide tailors training. Student Pilots will develop skills reeded by operational tanker, transport, and booker units. The TTBTS will accommodate one instructor milot and two students on a three hour pilot training mission.

(In Thousands of Dollars)
Program Requirement - F1 '7 ... \$2,787,866
Program Requirement - F1 66 ... 548,600 Program Requirement - FY 85 ... 219,800 Program Requirement - FY 84 ... 172,486

ACTIVITY: Other Aircraft

PAPT 1 PEPC-E AND SCOPE

This activic, provides for the procurement of NH-68A, Flight Inspection Aircraft Replacement, Autora and TR-1/U-2R aircraft in

PART II JUSTIFICATION OF MINES PROJESTED

The FY 1986 and FY 1987 fund requirements for procurement of other aircraft equipment, related support equipment, and advance procurement funding in support of the following year's program are: FY 1986 - \$548.8 million: FY 1987 - \$2,787.1 million. Details are as follow:

HEI-68A (PY 1986 - 3 aircraft, \$116.8 million: PY 1987 - 25 aircraft, \$228.1 million):

The HH-60A is a derivative of the Army UH-60A Black Hawk and the Navy SH-60B Seaherk. Changes to the UH-60A will include extended range (including air refueling capability), more powerful engines and transmission and improved amonics for precision low level navigation at night and under adverse weather conditions. Development, production and support costs will be limited by maintaining commonality with the UE 60A and SE-60B using common components to the maximum extent possible. The HE-60A w.ll provide the capability to rescue downed combat aircrews in current and future threat environments. The BB-58A is designed specifically for clardestine, single ship combat rescut operations.

Plight Inspection Airgraft Replacement (FY 1987 - 1 airgraft, 526.6 million):

Flight Inspection Aircraft will be an off the shelf corporate jet with an improved automated inspection panel. They will replace the current fleet of four C-140's and two T-39s with seven new aircraft. The mission of these aircraft is to ensure the accuracy of traffic control and landing systems and augment FAA flight inspection during peacetime and establish the Air Traffic control environment during contingencies and exercises.

Aurora (FY 1985 - 595.1 million: FY 1987 - 52.272.4 million:

This is classified. Special access is required for program details.

TR-1/D-ZR (FY 1986 - 8 augraft, \$343.9 million: FY 1-87-2 aircraft, \$118.6 million):

The TR-1/U-2 is a single engine, single crew, fixed wing aircraft specifically designed for high altitude, standoff surveillance missions. Except for three dual-meat training mircraft, all TR-1 mircraft can be equipped with either a recommaissance mensor package or the Precision Location Strike System (PLSS) equipment. The TR-1 is the tactical variant of the highly reliable, versatile U-ZR mircraft currently in the strategic recommaissance inventory. The tactical recommaissance TR-1, equipped with the latest sensors, All provide a battlefield survillance system available to the theater/tactical commander into the 1998s. The U-2R is a national reconnaissance asset used in direct support of national command authorities and/or in direct support of theater commanders. Pratt & Whitney modified J75 engines, available from within the Air Porce in entory, provide high maneuverability, and sufficient power for accessory/sensor operations.

(In Thousands of Dollars)

Program Requirement - FY 87 ... 4,825,200
Program Requirement - FY 86 ... 2,917,600
Program Requirement - FY 85 ... 3,074,800
Program Requirement - FY 84 ... 2,703,900

ACTIVITY. Modification of In-Service Aircraft

PART I PURPOSE AND SLOPE

This budget activity provides for modification and modernization of in-service aircraft, training devices and support equipment necessary for safety, extension of service life, and to incorporate operational improvements after an aircraft has entered service. The program is designed to maintain the Air Force aircraft inventory at the most modern configuration level at the minimum cost.

PART II JUSTIFICATION OF FUNOS REQUESTED

Modifications are necessary to enable the strategic offense, defense, tectical, and support forces to asintain superiority over hostile forces, to extend the active service life of sircraft, and to keep abreast of changing mission requirements. To ensure maximum safety for the aircraft and crews and to enhance capabilities of aircraft in a combat environment, priority modifications are necessary. Modifications are closely examined and priorities established so that only those most essential are accomplished with the funds available.

The FY 1986 program, to a large extent, consists of follow-on requirements for previously initiated modifications. In FY 1986, we are requesting a continuing ramp up of the production rates to mangine the KC-135 tanker sircraft with new fuel efficient, high by-pass turbofan engines. The FY 1985 negotiations have produced a significantly lower unit airframe kit cost over that previously projected, and this trend is expected to continue through the ramp up period. There is also significant effort included to improve aircraft survivability in a hostile environment by an imprace to the electronic defensive capabilities on various aircraft. Funding is also requested to continue enhancement of peacetime material readiness of an aging aircraft inventory. Other significant efforts impacting the program total include:

- (1) Modifications to provide cargo convertibility to the Civil Reserve Air Fleet widebody aircraft to increase the strategic mobility capabilities.
 - (2) Service life extension modifications to allow the aircraft to meet their programmed service life requirements.

- (3) Enhancements in the E-3A Airborne Warming and Control Sircraft Capability.
- (4) Avionics Modernization Program for the F/FR-111 aircraft to upgrade the bomb navigation systma to improve operational readiness by replacing high failure, high cost, and technologically outdated components.

Aircraft modification kits are procured on a phased basis, lead time away from installation, which is acheduled concurrently with normal depot maintenance programs to the maximum extent possible. Complex modifications are installed at Air Force depots or contractor familities, concurrently with programmed depot maintenance. Where the installation tasks are less complex or require a relatively small number of man-hours, they are accomplished in the field by amazined personnel or specialized terms dispatched from the depot or provided by contractors.

Buring FY 1985, the Air Force has aggressively pursued the use of existing modern hardware to upgrade aging aircraft components and competitive procurement for endification hardware to control costs and maximize the benefits of the rusources provided for modifications. While much of this effort has resulted in slower obligations, it has provided firm priced contracts at some attractive prices. The Air Force remains committed to using the pressure of the competitive marketplace to control costs.

8-52 (FY 1985 - \$463.6 million: FY 1987 - \$795.7 million). The FY 1986 program includes: continuation of modifications for Pave Mint electronic countermeasures equipment for the 8-52G in the amount of \$62.8 million, ALC-172 electronic countermeasures equipment for the R-52H in the amount of \$113.0 million, maintainability and support follow provements for the strategic radar in the amount of \$62.7 million, integration of internal Air Launched Cruise Missile Carriage capability in the amount of \$75.0 million, and \$56.5 million for several reliability and supportability improvements necessary to maintain the mirrorit in a safe operating condition.

The FY 1987 program continues existing modifications and will institute incorporation of VLF/LF receivers, and the addition of a synthetic querture radar in the conventional mission B-52Gs.

FB-111 (FY 1986 - \$13.2 Dillion; FY 1987 \$11.0 million). The FY 86 program initiates modifications to upgrade AFSATCOM terminals and electronic countermeasures systems.

R-18 (FY 1986 - \$5.1 million; FY 1987 - \$75.9). The FY 1986 program initiates modifications to upgrade AFSATCOM terminals.

A-7 (F" 1986 - \$3.4 million; FY 1987 - \$20.3 million). FY 1986 funding provides the AIM-9L missile capability for the A-7. FY 1987 funding centinues the AIM-9L program and initiates a variety of evidence system reliability and maintainsbility programs.

4-1' FY 1986 - \$87.8 million; FY 1987 - \$82.9 million). The FY 1986 program includes follow-on additications for a Turbine Engine Monitoring System in the amount of \$26.8 million, correction of deficiencies to the TF34 engines Hot Section in the amount of \$36.1 million, and \$14.3 million for various reliability/appointability improvements. Incorporation of AIM-9L Missile Carriage capability for \$16.6 million is also included. The TF-34 Hot Section modification utilizes a miltiyear contract with Economic Order Quantity (EDQ) revence procurement of components.

The FY 1987 program control of endifications started in previous fiscal years and initiates integration of aircrew chemical defense equipment.

F/RF-4 (FY 1986 - \$17 .c million; CY 1987 - \$396.0 million). The FY 1986 program continues funding for: update to the ALR-74 Radar Marning Receiver on the RF /4E series in the acount of \$65.9 million, \$45.0 million for a reliability supportability update to the RF-4C radar, \$18.2 million for replacement of Inertia. Maxigation System on the F-4C Wild Measel, and \$25.7 million for various safety/reliability/supportability improvements. New initiatives requested are structural fatigue corrections (\$3.2 million), and a simulator upgrade for the F-4E/G for \$19.5 million.

The FY 1987 program continues existing modifications and initiates a Wild Measel performance update and various reliability/supportability improvements.

F-5 (FY 1986 - \$25.7 million; FY 1987 - \$3.9 million). The FY 1986 program includes \$.7 million for mafety improvements. A major new initiative to improve the training capability of the aggressor squadron is included for \$25.0 million.

The FY 1987 program continues safety and reliability improvement programs begun in FY 1986.

F-15 (FY 1986 - \$141.6 million; FY 1987 - \$268.7 million). The FY 1985 program continues the Multi Stage Improvement Program to various series of the F-15 to provide continued combat effectiveness in the amount of \$134.1 million; and \$7.7 million for various safety, reliability, and maintainability improvements. Included in these improvements are to the Radar Receiver Pre-amplifier, the Actuator Input Arm, the Pitch Trim Control, and various other aircraft and engine improvements that are also being incorporated into the production line.

The F1 1987 program continues modifications initiated in previous fiscal years and initiates a new capability for Chem-Bio protection for crew members and improved Electronic Lounter-counter Measures systems.

F-16 FY 1986 - \$75.7 million; FY 1987 - \$385.2 million). In FY 1996, \$25.7 million continues the modification for the Operational Capability Upgrade on the 132 mircraft to be assigned to the Air Defense role, \$14.7 million for replacement of the vane type, main engine fuel pump with a gear type pump to improve the reliability necessary for a single engine alcoraft and \$1.4 million to the power approach controls to correct some flight control problems. Funding of \$12.9 million is requested to provide improved reliability on the F100 engines, \$5.3M million for correction to the Redar Marning Receiver .RWR. Antenna Placement for more effective performance of the RWR equipment, and \$13.7 million for a variety of other reliability supportability improvements for the F-16 A/B.

The FY 1987 program continues modifications started in previous flacal years, initiates a safety improvement to the Backup Control/System to provide an automatic start capability, and initiates new capabilities for all Environment Identification Friend or Foe, Chem-Bio Protection for crew members, and the Multinational Staged improvement Program for early F-16s.

F-111 (FY 1986 - \$294.5 million; FY 1987 - \$35..2 million). The FY 1986 program includes follow-on modifications for the Avionics Modernization Program (\$234.1 million), Pacer 30/100 Engine reliability improvements for the A. E. D. and F series (\$29.2 million), and various reliability/supportability improvements (\$6.0 million). Funding of \$16.0 million is for the initiation of a simulator upgrade program for the currently ion-supportable F/FB-111 System.

The FY 1987 program continues existing modifications.

EF-111 (FY 1987 - \$26.2 million). The FY 1987 program initiates a performance upgrade program to provide g improvements to meet current and projected thrillians.

IR-1 (FY 1986 - \$11.7 million; FY 1987 - \$15.3 million). The FY 1986 program continues the modification for an Advanced Defense System (\$6.3 million), and initiates effort on the NAVSTAR Global Positioning System (GPS) system and an improved sensor system called Senior Glass.

The FY 1987 program continues existing modification programs and initiates the avionics upgrade program.

C-5 (FY 1986 - \$9.8 million: FY 1987 - \$21.4 million). FY 1986 funding initiates efforts on reliability improvements for the buriliary power unit (\$3.1 million) and engine pressure ratio system (\$3.5 million). SFICOM antennes will be added for \$1.5 million.

The FY 1997 program continues existing modifications and initiates miscellaneous reliability one maintainability modifications.

C-1A1 (FY 1986 - \$2.1 million; FY 1987 - \$56.3 million). Funding of \$2.1 million continues the procurement of five small dollar teliability and supportability programs started in FY 1985.

The FY 1986 program continues modifications begun in earlier years and initiates an autopilot/all weather landing system modification to improve its supportability (\$45.5 million).

T-38 (F) 1986 - \$40.1 million; FY 1987 - \$84.5 million). The FY 1986 funding begins a series of structural modifications to ensure the service life of the f-38 beyond the 1990's These include a Cockpit Enclosure Program (\$5.7 million), Flight Loads Pecoider (\$1.6 million), and Take Off Auxiliary Air Coors (\$1.7 million). A modification to replace the Simulator Terrain Model board will be initiated for \$9.8 million. Funding will continue for the Aluminum Flight Control System (\$4.0 million), command Ejection Seat Selection (\$5.1 million), Dorsal Longeron replacement (\$5.9 million) and Engine 1-5 Amplifier Relocation (\$5.4 million).

The FY 1987 program continues these modifications and adds engine upgrades to insure operation beyond the 1950's (\$19.9 million).

C-12 (FY 1986 - \$5.0 million; FY 1987 - \$5.1 million). The FY 1986 program continues the conversion to a more current model of the PT-6A engine to maintain commonality with the Army and commercial version of the C-12.

The FY 1987 continues the conversion program.

C-130 (FY 1986 - \$201.0 million; FY 1987 - \$172.1 million). The FY 1986 program continues the following modification programs: Outer Wing Replacement to extend service life (\$73.6 million); Station Keeping Equipment Enhancement (\$16.5 million); improved capabilities for the Special Operations Forces (\$19.6 million); HC-130H Tanker Conversion for refueling of Combat Rescue and Special Operations Forces' heavy lift helicopter for wartime and contingency tasking (\$5.3 million': e Celf-Contained Navigational System (SCNS) to allow the C-130 to operate without external navigation aids in pattle zones where navigation aids may be shut down or jammed (\$39.2 million); replacement of existing anti-collision lights with strobe lights (\$1.6 million; the addition of a Flight Data Recorder Capability (\$3.0 million); the incorporation of Fuel Cell Foom to reduce fire hazard (\$4.8 million), and the conversion of the T56-A9 Engine Torquemeter to reduce vibiation and wear in the amount of \$1.5 million and various reliability/supportability modifications in the amount of \$5.8 million. It also includes the conversion of one C-130H to the MC-130H Special Operations Forces latest configuration in lieu of procurement of an MC-130H aircraft (\$13.4 million).

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FY 1987 continues existing modifications and initiates modifications to improve air rescue and recovery capabilities, improve communication antijam capabilities, and provide self-protection for special mission assigned C-130 aircreft.

C-135 (FY 1986 - \$868.1 million; FY 1987 - \$1,271.5 million). Funding of \$697.7 million in FY 1986 is for continuation of the re-engining of the KC-135 Tanker Aircraft with the CFM56 engine. This program, which also includes modification of over 25 subsystems necessary to incorporate the new engine provides an increase in off-load capability equivalent to one and one-half times the current KC-135A configuration. Other modification programs being continued are: Nuclear Hardening/UHF Radio Replacement for the EC-135 series (\$46.5 million), replacement of the lower wing skin to extend service life .\$38.9 million), incorporation of Standard VHF AM/FM radio capability into the tanker aircraft to meet the 25 Khz frequency hand required for civilian/military air traffic control (\$2.8 million), replacement of the current, unreliable MC-1 Autopilot with an off-the-shelf state-of-the-art system in the amount of \$30.4 million; and incorporation of .*CM Airborne Launch Control Capability into EC-135 A/C/G sircraft in the amount of \$32.3 million; new FY 86 initiatives include the NAVSTAR CPS capability (\$5.2 million), and AFSATCOM terminal upgrade (\$4.2 million).

The FY 1987 program continues existing modifications and initiates new programs for: Diversity Reception Equipment, EC-135C Groundwave Emergency Network capability, Milster UNF Transition, the Integraced Operation Nuclear Detonation Detection System (IONOS), and upgrade of the simulator to aircraft configuration for effective ground training.

E-34 (FY 1986 - \$33.4 million; FY 1987 - \$67.2 million.). The FY 1986 program includes \$25.5 million to continue funding a modification to provide HAVE QUICK A-NETS for an improved Anti-Jam capability; \$6.5 million to continue a reliability upgrade to the AN/APY-1 Radar System; and \$1.4 million for other reliability and maintainability improvements.

The FY 1987 program continues modifications initiated in previous fiscal years and initiates a new modification to include NAVSTAR GPS and improvements to the electronic mission systems to enhance air defense capability.

E-48 (FY 1986 - \$20.4 million; FY 1987 - \$49.9 million). Funding of \$18.0 million in FY 1986 initiates a modification to provide Enhanced communications capabilities. Various small reliability/supportability improvements (\$0.4 million) will be continued.

The FY 1987 program initiates an apprade to the Secure Data Terminal, Groundwave Emergency Net; MILSTAR Transition Systems, and other electronics and communications upgrade for improved connectivity.

H-57 FY 1986 - \$26.4 million; FY 1987 - \$57.0 million). Fund, a of \$1.9 million is requested to continue corrections to the lateral fore and aft serves. Hiscellaneous reliability/supportability modifications in the amount of \$0.4 million are also in the FY 1986 program. A service life extension program will be initiated for \$18.8 million as well as \$5.3 million to replace the tail pylon.

FY 1987 continues existing modifications to extend the service life of the H-5° by upgrading the electrical system, accessory gear box support structure, automatic flight control rystem, nose orar box assembly, maximator blade, and tail polon and landing gear assembly. This service life extension modification is necessary to maintain the HH-53 helicopters in a mission capable condition.

Other Aircraft (FY 1986 - \$133.2 mi lion; 'Y 1986 - \$466.6 million). In FY 1986, funds are requiren for follow-on costs of previously initiated modifications as follows: \$13.6 million for HAVE QUICK Anti-Jam Capability Improvements, \$12.6 million for the Standard Combined Altitude Radar Altimeter (CARA), \$10.7 million to improve the reliability of 'me ITU 205 Field Test Set for Pressule and Temperature used for testing all first line air raft prior to take-off, \$5.2 million for reliability improvement to the AN/APN-59E (v) radar, \$26.0 million to replace HF radios with highly reliable state-of-the-art radios. \$35.0 million for the Standard Central Air Data Computer, \$16.8 million for correction of deficiencies in the AN/ALC-40 Chaff/Flare Dispensers, and \$13.3 million for various modifications on a variety of aircraft.

The FY 1987 program continues modifications initiated in previous fiscal years and initiates new efforts to improve the Anti-Jam Capability and provide Global Positioning System (GPS) Airborne terminals for a variety of aircraft. As the specific aircraft are identified, the funds will be moved to that aircraft system P-1 line item. A replacement for the AN/APN-69 Radar Beacon and replacement of the AN/APQ-122 radar are scheduled to preclude non-support posture due to non-availability of spare parts.

Classified Projects (FY 1986 - \$114.4 million; FY 1987 - \$119.8 million). These funds are required for the modification of a variety of aircraft and airborne systems used in classified missions which, because of their sensitivity, require the application of special management and security safeguards.

Civil Reserve Air Fleet (LRAF) - \$164.9 million). The 1986 program funds will provide for five cargo convertibility modifications to 8-747 aircraft to enhance the strategic airlift capability.

The following table summarizes fund requirements for Fiscal Years 1985, 1986, and 1987 by aircraft/category:

(In Millions of Dollars)

Aircraft/Category	FY 1985	FY 1986	FY 1987
B-52	466.5	463.6	795.7
FB-111		13.2	
B-1B		5.1	11.0 75.9
A-7	78.6	3.4	
A-10	61.9	87.8	20.3
17/RF -4	260.7	174,2	82.9
F-5	3.9	25.7	396.0
F-15	115.1	141.8	3.9
F-16	60.2	73.7	268.7
F-111	206.5	294.5	385.2
EF-111		274.7	354.2
TR-1	24.0	11 7	26.2
C-5	3.1	11.7	15.8
C-14!	14.9	9.8	21.4
T-38	10.2	2.1	56.3
C-12		40.1	84.5
C-29	1.3	5.0	5.1
C- 130	242.0		12.8
C-131	242.2	201.0	172.1
C-135	8.0		
£-3	826.5	^A 68.1	1,271.5
E-4	78. i	3.4ر	67.2
KC-10	15.0	20.4	49.9
· · · · · · · · · · · · · · · · · · ·		4.3	5.2
H=53	2.6	26.4	57.0
Other Aircraft	132.9	133.2	466.6
Classified Projects	152.6	114.4	119.8
Special Support Projects	181.1		
CRAF	128.9	164.9	
TOTAL	3,074.8	2,917.8	4,825.2

STATUS OF AIRCRAFT MODIFICATION PROCEAMS

FY 1985 Modification of Aircraft Programs as of 30 Dec 84 (\$ in millions)

Program	Appropriated	Adjustments 1/	Total Program nustments 1/ Value		Total Expenditures
Budget Activity No. 5 P-1 No. 31-59	\$2,556.3	-591.8	\$2,464. 5	\$2,129.9	\$1,848.9

l'Adjustments consist of: a share of Congressionally directed reductions for Independent Research and Development and Bid and Proposal costs (-\$24.8 million) and personnel security clearance costs (-\$3.6 million); a reappropriation to the F? 1984 Aircraft Procurement activity as financing from the KC-135 Re-engining program (-\$14.8 million); Congressionally approved reprogrammings (-\$59.1 million); and below threshold reprogrammings (+\$2.7 million).

STATUS OF AIRCRAFT MODIFICATION PROCESSES

FY 1984 Modification of Aircraft Programs as of 31 Dec 84 (\$ in million)

Program	Appropriated	Peprogrammings 1/	Total Program Value	Total Obligations	Total Expenditures
Budget Activity No. 5 P-1 No. 31-59	\$2,704.5	\$ 6	\$2,703.9	\$1890.4	\$257.6

STATUS OF AIR PAPT HODIFICATION PROGRAMS

FY 1985 Mcliffcation of Aircraft Programs as of 51 Dec 84 (\$ in mullior)

Program	Appropriated	Adjustments 1/	Total Program <u>Value</u>	Total Obligations	Total Expenditures
Budget Activity No. 5 P-1 No. 31-59	\$3,056.7	\$ + 18.1	\$3,074.8	\$236.6	Ø

^{1/} Adjustments result from below threshold reprogramming actions.

(In Thousands of Dollars) \$6,035,700 Program Requirement - FY87 Program Requirement - FY86 \$4,934,600 Program Requirement - FY85 \$5,325,900 Program Requirement - FY84 \$4,599,100

ACTIVITY: Aircraft Spares and Repair Parts

PUFPOSE AND SCOPF: This activity provides funds for investment items used to repair aircraft and aircraft support equipment. Investment items are defined as reparable assemblies that are centrally procured and managed. The account has two categories: initial spares and replenishment spares. The initial spares category funds spares needed to support initial operations of new aircraft, new aircraft modifications and new airborne equipment purchased through the Other Production Charges account (Electronic Counter Measure Pods, for example). The second category, replenishment spares, provides follow-on spares support for all aircraft and aircraft ground support equipment that have transitioned through the initial operations phase. The replenishment spares account firances the bulk of peacetime spares requirements and all wartime spares requirements.

JUSTIFICATION OF FUNDS REQUESTED: The initial spares segment of the account has four parts. Part one, "Initial Weapon System Spares," funds complete spare ængines as well as spare parts required to support initial operations of new aircraft. Included in the latter are aircraft spares, engine spare parts and peculiar ground support equipment spares. The second part, "Modification Spares," funds spare parts needed during initial operations of modified airborne systems. Spares to support initial operations of common ground support equipment are included in part three, "Common GSE while initial operations of equipment financed in the "Other Production Charges" account (such as Electronic Counter Measure Pods) are supported through part four, "Other Production Spares."

The replenishment spares segment of the account has three categories of spares. The first category, Peacetime Operating Stock (FOS), supports the peacetime flying hour program. FY86 and FY87 funds support FY88 and FY89 flying hours respectively. The second category, War Readiness Spares Kits (WRSK) and Base Level Self-Sufficiency Spares (BLSS), support initial wartime operations. Funds are required for the FY88 kit authorizations and updates. The first two categories of replenishme to a sprovide our readiness posture. The last category, Other War Reserve Marrial COURM), provides spares and repair parts to continue wartime operations until he industrial base can meet wartime production requirements. This is the key to susta ability. The funds requested in all three categories reflect savings as a result of plementing the Secretary of Defense's spare parts acquisition reforms and All Porce management initiatives.

The following table compares program funding/requirements by fiscal year:

AIRCRAFT SPARES AND REPAIR PARTS

(In Millions of Dollars)

	FY84	FY85	FY86	FY87
Initial Aircraft Spares		1,439.8	1,148.5	
Replenishment Aircraft spares	3,303.5	3,886.1	3,786.1	4,902.8
Total	4,599.1	5,325.9	4,934.6	6,035.7

Initial Aircraft Spares: The initial spares funding requirements are presented in more detail in the following table:

INITIAL AIRCRAFT SPARES

(In Millions of Dollars)

	FY84	FY85	FY86	FY87
Initial Weapon System Spares	1,062.4	1,139.5	798.3	420.3
Initial War Reserve Spares	0	0	0	135.6
Initial Modification Spares	186.3	227.5	212.1	356.3
Initial Common GSE Spares	19.8	41.3	38.3	44.4
Initial Other Production Spares	27.1	32.5	99.8	176.3
Total Initial Spares	1,295.6	1,439.8	1,148.5	1.132.9

The largest segment of the FY86 requirement is for Initial Weapon System Spares. Requested funding of \$798.3 million will support initial operations of 10 inproduction aircraft as shown in the following table:

INITIAL AIRCRAFT SPARES REQUIREMENTS

(In Millions of Dollars)

	<u> 7485</u>		<u>. 17</u>	(86	<u>FY87</u>	
Aircraft	Proc	Fund	Proc	Rqmt	Proc	Rqmt
B-1	34	559.7	48	162.2	-	_
F-15	42	111.4	48	85.5	48	119.6
F-16	150	273.3	180	303.6	180	198.0
KC-10	8	55.0	١ 2	72.0	8	-
C-130H	16	12.0	-	-	-	-
MC-130H	2	8.7	1	3.8	2	5.5
C-5B	8	72.3	16	112.5	21	16.0
C-12D	6	3.0	_	-	-	-
C-20	3	5.7	8	16.8	_	-
T-46	10	5.3	33	16.1	91	21.8
HH-60	••	.1	3	6.1	25	42.1
Flt Ins Acft	1	3.0	**	_	1	1.9
TR-1/U-2	4	30.0	8	19.7	2	15.4
Totals		1139.5		798.3		420.3

The second largest driver of initial spares requirements is the aircraft modification program. To support initial operations of over 150 modified systems, new spares inventory valued at \$212.1 million will be required. Four modifications account for 35% of the request--KC-135R re-engining (\$29.7), B-52 radar upgrade (\$14.7), classified program (\$12.6), and F-111 avionics modernization program (\$17.2). A third segment of the request, "Initial Other Production Spares," has experienced significant growth over prior years. The growth is attributed to two programs--Precision Location Strike System (PLSS) and the Low Altitude Navigation and Targeting Infrared System for Night (LANTIRN). Spare parts inventory costing \$26.8 million will be required for PLSS and \$15.7 million is needed for LANTIRN early-on spares support.

Replenishment Aircraft Spares: The replenishment apares funding requirements are presented in more detail in the following table:

REPLENISHMENT AIRCRAFT SPARES

(In Millions of Dollars)

	FY84	FY85	FY86	<u>PY87</u>
POS	2255.6	2415.6	2395.9	2984.0
WRSK/BLSS	828.4	646.6	1150.5	1419.8
CM RM	219.5	823.9	239.7	499.0
TOTAL REPLEN SPARES	3303.5	3886.1	3786.1	4902.8

Peacetime Operating Stock (POS)

The FY86 replenishment spares program fully supports the Air Force's number one readiness initiative, "peacetime training for combat", with full funding of Peacetime Operating Stocks (\$2395.9M). The FY88 program of 3.7 million flying hours will be supported with FY86 funds. Failure to provide funds will result in inadequate spares levels to support critical combat training. Without these spares, available wartime stocks will be used excessively to support peacetime combat training, degrading readiness. The largest drivers of the POS spares request are to support the B-1B, F-15, F-16 and the F100 engine. As Air Force increases its inventory for these systems, new stocks are required to fill pipelines and increase levels at both base and depot level. In addition to support of new systems, we are also supporting modernization efforts for older weapon systems. The B-52 avionics and engine enhancements, F-4 electronic counter measures, avionics and structural upgrades, and the F-111 avionics modernization program are the significant drivers in this area. A complete breakout of all weapon system requirements and funding follows the discussion on war reserve material.

War Readiness Spares Kits/Base Level Self-Sufficiency Spares (WRSK/BLSS): WRSK/BLSS 13 the prepositioned segment of war reserved material maintained at base level with units tasked with wartime missions.

a. War Readiness Spares Kits are air transportable packages of spares that will support specific units tasked to deploy during the first 30 days of a war. The basic configuration of a WRSK is determined by the maintenance concept of the spares, i.e., Remove and Replace (RR) as opposed to Remove, Repair and Replace (RRR). The WRSKs are configured

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to include both the RR and RRR maintenance concepts depending on the base level repair available at the deployed site. The using major command and the Air Force Logistics Command determine those essential items to be included in the WRSK. These represent only a small portion of the total number of spares used on a day-to-day basis in peacetime. The quantity of items included in the WRSK are computed using factors such as item wartime failure rates, number of items per aircraft, the wartime flying hour program, base repair time, and item pipeline time.

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b. Base Level Self-sufficiency Spares (BLSS) are spares designed to augment peacetime assets to support the initial increased wartime activity for specific units that will fight the war in place. BLSS requirements consider the same factors as those used in the WRSK computation. Those units which are authorized a WRSK are not authorized a BLSS.

The FY86 budget request of \$1,150.5M fully supports WRSK/BLSS requirements for new authorizations and updates. This will continue the improved readiness posture the Air Force has achieved in the last few years. The major drivers are new authorizations for the F-15 and F-16 irreft and revisions to existing kits that consider modifications, wartime failure rate and flying hour changes.

Other War Reserve Material (OWRM) OWRM is the prestocked segment of war reserve material stored in the AFLC depots. These spares are required to sustain forces at wartime levels after peacetime and prepositioned assets are used, and until the production base can be expanded to satisfy wartime consumption. OWRM requirements are also jointly reviewed by the using major command and Air Force Logistics Command to ensure only combat essential items are procured. The resulting OWRM requirements are then reduced by assets available from production, peacetime levels and WRSK/BLSS levels. The OWRM requirement supports the DOD Defanse Guidance "days of support". With the FY86 requested funding, the Air Force will meet Defense Guidance goals for tactical forces in FY88 (two year leadtime). Due to limited dollar resources, the B-52 requirement will not be fully satisfied.

The funds received for replenishment spares have a direct relationship to aircraft capability. The 76% increase in wartime tactical sortic generation capability from 1981 to 1984 and 64% increase in projected strategic airlift cargo tons moveable indicate the commitment to improve logistics readiness and sustainability. The FY86 funds request continues to improve our posture and meet Defense Guidance support goals. One of the major reasons for our improved capability is that the Air Force has improved its spares acquisition process. Significant savings have allowed for investment in sustainability in FY44 and FY85. These savings have been considered in the FY86 request in terms of reduced prior year deficits and a 14 percent estimated savings for spares pricing has been applied.

In summary, the FY86 aircraft replenishment spares request will allow the Air Force to fully fund Peacetime Operating Stocks (POS) and War Readiness Spares Kit/Base Level Self-sufficiency Spares - the bedrock of Air Force warfighting capability. Combat proficient air crews, ready to deploy and fight, constitute the Air Force's number one readiness objective. This is completely dependent upon spare parts availability. Partial funding of the most essential OWRM spares will continue the Air Force's efforts to sustain wartime flying hours for tactical forces based on Defense Guidance, as well as maintain mobility forces supported in FY85. These investments in sustainability are possible due to the reforms in spare parts acquisition which produced savings. These initiatives, plus positive funding priorities, are building a ready, sustainable Air Force.

AIR FORCE
AIRCRAFT REPLENISHMENT SPARES: 1986
(\$ IN MILLIONS)

	PEAC	ETIME	WRSK	WRSK-BLSS		RM
WEAPON -SYSTEM	TOTAL ROMT	FUNDING	TOTAL ROMT	FUNDING	TOTAL ROMT	FUNDING
A007	12.1	12.1	8.6	8.6	10.3	10.3
A010	23.9	23.9	118.1	118.1	0.0	0.0
A037	. 0.4	0-4	0.1	0.1	0.0	0.0
BOIB	∂18.9			9.0	0.0	9.0
8032	129.4		103.4	103.4	259.2	20.4
B111	15.5	15.5	0.0	0.0	0.0	0.0
E111	16.2	16.2	4.2	4.2	0.0	0.0
F111	131.0	131.0	25.0	_	49.9	49.9
C005	47.9	47.9	35.8		0.0	0.0
C130	67.7	67.7	80.3		0.0	0.0
C135	86.0	86.0	10.1	10.1	0.0	0.0
C137	1.2	1.2	0.0	0.0	0.0	0.0
C140	2.5	2.5	0.2	0.2	0.0	0.0
C141	35.4	35.4			0.0	0.0
E003	. 32.2	32.2	37.9		0.0	0.0
E004	2.2	2.2	0.0		0.0	0.0
F004	99.6	99.6		15.1	131.5	131.5
F005	16.5	16.5	0.0	0.0	0.0	0.0
F015	110.6	110.6			0.0	0.0
F016	435.2	435.2	356.7		0.0	0.0
H001	0.7	0.7	0.3	0.3	0.0	0.0
H003	2.0	2.0	0.6	0.6	0.0	0.0
H053	1.7	1.7	2.4	2.4	0.0	0.0
H090	0.1	0.1	5.2	5.2	0.0	0.0
T033	3.3	3.3	0.0	0.0	0.0	0.0
T037	15.2	15.2	0.0	0.0	0.0	0.0
T038	7.0	7.0	0.0	0.0	0.0	0.0
T039	0.3	0.3	0.0	0.0	0.0	0.0
T046	3.8	3.8	0.0	0.0	0.0	0.0
U010	0.4	0.4	0.1	0.1	0.0	0.0
F100	391.3	391.3	3.2	3.2	0.0	0.0
COHN	402.3	402.3	132.3	132.3	27.6	27.6
OTHR	53.4	53.4	2.5	2.5	0.0	0.0
TOTL	2,565.9	2,565.9	1 150 5	4 454 5		
	2,363.7	2,303.7	1,150.5		478.5	239.7

Total requirement # 4,194.9
Total funding = 3,956.1
Total unfunded = 238.8

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^{*}POS includes \$170.0M of replenishment authority

AIR FORCE AIRCRAFT REPLENISHMENT SPARES: 1987 (\$ IN MILLIGNS)

	PEACE	ETIME	WRSK-	-BLSS	OWRM		
WEAPON SYSTEM	TOTAL ROHT	FUNDING	TOTAL ROMT	FUNDING	TOTAL ROMT	FUNDING	
A007		13.7	6.0	6.0	0.8	0.8	
A010	45.0	45.0	34.2		1.0	1.0	
A037	- 0.8	0.8	0.4	0.4	0.1	0.1	
B01B	307.9				178.9	178.9 172.3	
B052	169.0	169.0	68.9	68.9	230.7	0.0	
B111	22.6	22.6	0.0 74.6	0.0 74.6	2.1		
E111	25.1		162.0	162.0		3.1	
F111	205.6 78.4		47.2	47.2			
C005	90.6		32.2		0.6		
C130	103.4				1.3	1.3	
C135 C137	1.6		0.0	0.0	0.0		
C140	2.7		0.2	0.2	0.0		
C140	·52.7		15.8				
E003	53.7		13.2	13.2	1.1	1.1	
E003	3.1		0.0	0.0	0.1	0.1	
F004	126.8		60.7		2.1	2.1	
F005	35.2		0.0		0.3		
F015	173.4		195.3		7.1	7.1	
F016	481.2		434.1		7.3		
H001	1.1		1.2	1.2			
нооз	2.1		6.7			0.1	
H053	2.5				0.1	0.1	
H060	2.0		3.7		1.1	1.1	
T033	4.4		0.0		0.0		
T037	17.8		0.0		0.0		
T038	15.1		0.0	0.0	0.0	0.0	
1039	0.8	0.8	0.0	0.0	0.0	0.0	
T046	13.9	13.9	0.0	0.0	0.0	0.0	
U010	0.7	0.7	0.9	9.0	0.0	0.0	
E100	438.4	438.4	0.0	0.0	1.7	1.7	
CONN	414.0	414.0	0.0	0.0	0.0	0.0	
OTHR	78.8		0.5			0.0	
TOTL	2,984.0	2,984.0	1,419.8	1,419.8	577.4	499.0	
Total	requ	ir⊲ment=	4,981.2				
Total	-	isd =	•				

Total requirement= 4,981.2
Total funding = 4,902.8
Total unfunded = 78.4

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(In Thousands of Dollars)

Program Requirement - FY 87 ... \$4,491,952
Program Requirement - FY 86 ... 3,499,392
Program Requirement - FY 85 ... 2,688,981
Program Requirement - FY 84 ... 2,221,618

ACTIVITY: Aircraft Support Equipment and Pacilities

PART I PURPOSE AND SCOPE

This activity provides for common support equipment required to service and test aircraft and their components; for refurbishment and rehabilitation of industrial machinery, equipment and facilities required in the manufacture of items funded by this appropriation; for those war consumable items required to be on hand for immediate use in the event of war; and for other charges such as electronic countermeasure equipment. The activity also provides for procurement of flight simulation equipment for aircraft that are no longer in production except for the B-IB, and for programs not associated with one specific weapon system.

PART II JUSTIFICATION OF FUNDS RECUESTED

The estimate for this activity is comprised of the following items: (In Millions of Dollars)

LINE LIEM	FY 1984	FY 1985	FY 1986	FY 1987
Common Ground Equipment Industrial Responsiveness War Consumables Other Production Charges NATO AN VCS	\$414.2 129.5 152.5 1413.3 112.1	\$627.6 67.5 116.5 1877.4	\$631.9 89.2 86.4 2683.7	\$968.6 99.2 121.9 3382.3
ACTIVITY TOTALS	\$2221.6	\$2689.8	\$3490.3	\$4492.8

Common Ground Equipment

This program is for the procurement of organizational, base and initial depot level support equipment, both common and peculiar, for out-of-production aircraft, and for common support equipment for new aircraft entering the inventory. The equipment is used on the flight line, in maintenance shops, and in the depots. The program also provides for the procurement of flight simulators and other training devices for circraft models that are out of production. It also includes procurement of flight simulators and other training devices for the B-lB. Support equipment includes depot plant equipment, support equipment for modifications, common training equipment, and the following Federal Supply Groups (FSG):

- FSG 1 Aircraft launching, landing, and ground handling equipment (trailers, platforms, slings).
- FSG 41/45 Compressors, air conditioners, and heaters.
- FSG 49 Maintenance and repair s.op equipment (test stands, jigs, fixtures, noise suppressors).
- FSG 6:/66 Electric wire and power distribution equipment (instrument and laboratory equipment).

Other Federal Supply Groups - Pumps, gauges, nitrogen servicing units, and specialized tools.

The following table shows a comparison, by year, by category, of support equipment:

(In Millions of Dollars)

NOMENCLATURE	FY 1984	FY 1985	FY 1986	FY 1987
FSG 17	62.1	55.8	81.6	141.8
FSG 49	196.0	176.1	212.3	369.0
FSG 41/45	66.2	90.1	114.4	198.8
FSG 61/66	53.8	60.1	76.2	132.4
Other FSGs	33.2	47.3	59.9	104.1
Common Training Equipment (Simulators)	2.9	198.2	86.6	22.5
TOTAL COMMON GROUND EQUIPMENT	414.2	627.6	631.0	968.6

* FY 85 Common Training Equipment includes Simulators for the B-1, EF-111, C-141, and C-5.

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Industrial Responsiveness

The Industrial Responsiveness program provides for capital type rehabilitation, necessary real property maintenance and improvements, and compliance with environmental and energy requirements for Air Force-owned, contractor-operated industrial facilities. Also included is the Manfuacturing Technology program which establishes and validares improved manufacturing methods, processes, and techniques to reduce acquisition and support costs, reduce production lead times, improve product quality, provide iomestic sources, increase production yields, and ensure economic producibility of Air Force war fighting equipment. Funding is also provided for Industrial Productivity and Responsiveness Improvement efforts, which include industrial base Technology Modernization (an incentive effort to stimulate private capital investment, and Industrial Preparedness Measures, and for Industrial Base Program Planning.

The following table shows a comparison, by year, of the Industrial Responsiveness program:

	FY 1984	FY 1985	FY 198L	FY 1987
Expansions	24.8	2.9	.0	3.6
Packing, Crating, & Handling	.1	.1	. 1	.3
Capital Type Rehabilitation	21.9	19.4	30.1	56.5
Modernization and Replacement	0	2.0	•0	.4
Manufacturing Technology	8.0	.0	.0	.0
Industrial Base Program Planning	2.6	3.3	4.4	5.1
Environmental Protection/Restoration	10.0	2.3	10.6	.0
Industrial Productivity and				
Responsiveness Improvement	59.6	29.9	23.8	28.3
Energy Conservation	2.5	7.6	.0	.0
Production Surge	0	0	20.2	5.0
TOTAL Industrial Responsiveness	129.5	67.5	89.2	99.2

The requirements for FY 1986 in each category in the above table are as follows:

Expansions: Required for real property modifications at Air Force Plants. No funding in FY 1986

Packing, Crating, & Handling: Eequired to prepare idle government-owned equipment for shipment to other locations

Capital Type Rehabilitation: Required for rehabilitation of government-owned contractor-operated industrial production facilities. Included are real property projects at Air Force Plant 3, Tulsa, OK; A.r Force Plant 4, Fort Worth, TX; Air Force Plant 6, Marietta, GA; Air Force Plant 42, Palmdale, CA; Air Force Plant 59, Binghamton, NY; Air Force Plant 85, Columbus, OH; and Air Force Plant 19, San Diego, CA.

Modernization & Replacement: Modernizes government-owned industrial production equi; ment operated at Air Force Plants. No funding in FY 1986.

Manufacturing Technology: Required for the establishment, validation, and demonstration of new manufacturing methods, procedures, and equipment to advance the current manufacturing state-of-the-art. Pirectly improves the productivity of the U.S. defense industrial base. Government benefits include reduced production and support costs, reduced lead times, improved quality and durability, economic productibility, domestic availability, and improved production yields. Projects are conducted under contract with private industry, with results widely disseminated through the industry. Annual program built with coordination through the Department of Defense Manufacturing Technology Advisory Group. No FY 1985 or subsequent year funding as requested as this program has been transferred to the RDT&E appropriation per Congressional direction.

Industrial Base Program Planning: Analyzes industrial capability to meet Air Force manufacturing requirements for various (including peacetime production) military scenarios and determines programs, deficiencies, bottle-necks, "war-stoppers," and opportunities for improvements. Generates prioritized plans for needed government actions based on Air Force mission requirements. Integrates the sub-elements of the Air Force Industrial Responsiveness program and all Air Force industrial hase actions to provide a comprehensive and cohesive approach to improving and assuring the war time capability of the industrial base. FY 1983 efforts will include the annual Production Base Analysis, Mobilization and Surge Planning, Mater als Demand and Lead Time Data Base Study, and Fiber Optics Repair Capability Analyses, Electronics sector analysis, robotics applications study, and flexibile machining system application study.

Environmental Protection: Required for compliance with federal, state, and local laws and regualtions for control of present and correction of past ground, water, air, and other industrial pollution. Include ections at Air Force Plants 3, Tules, OK; 6 Mariette, GA; 42, Palmdale, CA; and 4, Fort Worth, TX.

Industrial Productivity and Responsiveness Improvement: Funds Industrial Preparedness Measures and the government portion of industrial base Technology Modernization (Tech Mod) efforts in which the government provides incentives to private industry and industry invests in the modernization of facilities and equipment used for the manufacture of DoD end items resulting in production cost savings shared by the government and industry. Include major Tech Mod initiatives with with subcontractors to General Dynamics for F-16 manufacture, General Electric Company and military engine subcontractors, Pratt & Whitney Aircraft Group and military engine subcontractors, Lockheed Georgia company, Fairchild Industries, forging industry contractors, travelling wave tube industry contractors, electronics sector contractors, and Air Force Air Logistics Center contractors.

Production Surge: Fund the purchase of long lead time, semi-finished parts and special test equipment without which production bottlenecks would occur during a rapid, unplanued build-up in time of crisis. FY 1986 funds will purchase equipment and material to surge production of electronic worfers travelling wave tubes, combined effects munition; and flare and chaff squips

1	COMPONENT USAF	FY 19_	e6 FACIL	i8 Jan 85			
3	Air Force Tulsa, CK		Y ION		4 PROJECT TO Installati Program		ation
5	78011F	MENT C	CATEGORY CODE 221-221	7 PR	OJECT NUMBER	8 PROJEC \$3,00	T COST (\$000)
			9 00	ST ESTI	MATES		

9 COST ESTIMATES								
ITEM	U/M	QUANTITY	UNIT COST	COST (\$000)				
Installation Restoration Program	LS			\$3,000				

Description of Requirement:

Corrective actions will be taken in response to contamination at AF Plant 3 resulting from historic waste management and disposal actions. This will necessitate the improvement of the plant impoundments.

Basis of Need:

Project is required to fulfil! Air Force responsibilities under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA), per delegation to the Department of Defense under Executive Order 12316.

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٦	USAF	FY 19 _86	FACILI	2 DATS 18 Jan 85					
3 INSTALLATION AND LOCATION Air Force Plant 4 Fort Worth, TX					4 PROJECT TITLE Installation Restoration Program - Phase III				
5			EGORY CODE	7 PRO.	ECT NUMBER		T COST (SOCO)		

9 COST ESTIMATES								
ITEM	U/M	QUANTITY	UNIT COST	COS7 (\$000)				
Installation Restoration Program - Phase III	LS			\$4,600.0				

Description of Requirement:

Remedial actions will be taken to respond to subsurface contamination at AF Plant 4 resulting from historic waste management and disposal actions dating from 1942. Specific actions will be defined by Installation Restoration Program Phase II and the Phase IV remedial action plan (RAP) and engi. ering study.

Basis of Nead:

This project is required to fulfill Air Force responsibilities under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA), per delegation to the Department of Defense under Executive Order 12316.

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FY 19_86 FACILITY PROJECT DATA							72	DA*E			
USAF		170161	1111		Uni	n 		1	2 Apr 84		
3 INSTALLATION AN				4 (CT TITL					
AFP 4. General Dynamics									merator		
Fort Worth TX 5 PROGRAM ELEMEN	. . T	& CATEGORY CODE	7 PROJ	:	<u>Sy</u>	sten		ASEVES.	AT 1000m		
5 PROGRAM ELEMEN	' i	S CATEGORY CODE	/ PRO.	EC I	NUMB	ER	8 F/	ROJECT CO	ST (\$000)		
78011 F		221-221	,					\$623.0	\$623.0		
·		9 COS	T ESTIMA	TES							
		ITEM			U/M	QUANT	rity	UNIT COST	COST (\$000)		
Air Force Elect Simulator (AFE) Note: This is a systematical expension of the state of the systematical expension of the syste	troni WES), em sp	·	tion		LS				\$623 _. 0		

Install new primary service and motor-generator sets to provide 60 Hz power conversion with voltage regulation, ride through protection, total line isolation, and transient-free electrical power for computer operations in the expanded Air Force Electronic Warfare Evaluation Simulator located in Bldg 2A.

BASIS OF NEED:

The Air Force Electronic Warfare Evaluation Simulator has expanded and now occupies space on both the first and second fleors of Bldg 2A. Three new shielded severable and portable rooms will house test articles and support equipment. Computer Power Control Centers are required to provide requlated, transient-free, 60 Hz power to AFEWES computer systems. Existing power comes from sources shared by loads located outside the AFEWES closed area and is subject to line transients as well as electronic surveillance.

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USAF FY 1986 FACILITY PROJECT DATA									8 Jan 85
Air Force Plant 6 Marietta, GA Air Force Plant 6 Marietta, GA Program - Phase IV									on
5 PROGRAM ELEMENT 6 CATEGORY CODE 7 PROJE					NUMB	ER	8 PI	CO TOBLOR	ST (S000)
78011F 221221						!	2,000.0		
9 COST ESTIMATES									
		ITEM			U/M	QUANTITY UNIT		UNIT COST	COST (\$000)
Installation Phase IV	n Res	toration Program	•		LS				\$2,000.0

Description of Requirement:

Remedial actions will be taken to respond to subsurface contamination at AF Plant 6 resulting from historic waste management and disposal actions dating from 1942. Specific actions will be defined by the Installation Restoration Program Phase II and the Phase IV remedial action plan (RAP) and engineering study.

Basis of Need:

This project is required to fulfill Air Force responsibilities under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA), per delegation to the Department of Defense under Executive Order 12315.

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USAF FY 19_86 FACILITY PROJECT DATA INSTALLATION AND LOCATION Air Force Plant 42 (Sites 2 & 5) Palmdale, CA Program - Phase IV									
Palmdale, CA 5 PROGRAM ELEMENT	6 CATEGORY CODE	7 PROJ		OGTA			ROJECT COS	T (SCOOL)	
78011F	221-221	, ,,,,,,			_,,		\$500.0	27 (30007	
	9 COS	T ESTIMA	TES				·····		
	ITEM			U/M	QUAN'	TITY	UNIT COST	COST (2000)	
Installation Res Phase IV Remedia	toration Program l Action			LS				\$ 500.0	

Description of Requirement:

Investigate and clean up the contamination at AF Plant 42 resulting from historic waste management and disposal actions at Sites 2 and 5.

Basis of Need:

This work is part of the Air Force Installation Restoration Program (IRP) to clean up areas contaminated as a result of past activities as identified in the investigation phase of the IRP.

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1 COMPONENT						73	DATE	
USAF FY 19	USAF FY 19.86 FACILITY PROJECT DATA							
3 INSTALLATION AND LO Air Force Plant Palmdale, CA	42 (Sites 1, 3, &	4)	Inst		ion!	Restora Increm		
5 PHOGRAM ELEMENT	6 CATEGORY CODE	7 PROJECT	NUMB	ER	8 PI	ROJECT CO	ST (\$000)	
78011F	221-221					\$500.0		
	9 COS	T ESTIMATES						
	ITEM		U/M	QUAN	TITY	UNIT COST	CC:57	
Installation Re Third Increment	storation Program		LS				\$500.0	

Description of Requirement:

Third Increment groundwater assessment and Remedial Action Plan (RAP) preparation.

Basis of Need:

This work is part of the Air Force Installation Restoration Program (IRP) to clean up areas contaminated as a result of past activities as identified in the investigation phase of the IRP.

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War Consumables

The funds requested, along with prior funded assets, will provide additional wartime support needed, in the event of hostilities, to sustain operations until such time as production could be expanded to provide the required level of support. Included in this program are auxiliary fuel tanks, missile launchers, pylons, ejector racks, and adaptors which are consumed during wartime and peacetime operations.

The following is a breakout, by fiscal year, of the War Consumables program:

(In Millions of Dollars)

	FY 1984	PY 1985	FY 1986	FY 1987
F-4 Aircraft	4.1	-	-	-
F-15 Aircraft	-	-	-	-
F-16 Aircraft	97.8	98.0	69.3	48.6
AGM-65 Launchers	36.5	17.0	14.9	14.7
AGM-88 Launchers	1.9	1.5	2,2	8
AMRAAM Launchers	-	-	-	58.6
OV-18	2.3	-	-	_
HH53	9.9	-		-
Total War Consumables	152.5	116.5	86.4	121.9

Other Production Charges

This program provides for items, such as Classified Projects, Alternate Mission Equipment, and Range Improvement, that are not directly related to other procurement lines in this appropriation and cannot be reasonably allocated and charged thereto. It also includes items, such as Electronic Countermeasure (ECM) Pods, Precision Location Strike System, LANTIRN, NAVSTAR GPS, that are used by more than one weapon system and managed as end items themselves. The following table provides a comparison, by fiscal year, of the items in this program:

(In Millions of Dollars)

	PY 1984	PY 1985	FY 1986	FY 1987
Classified Projects	1931.4	1334.8	1630.0	1911.4
ECM Pods	298.2	345.1	325.8	351.5
Pave Tack	6.8	-	-	34.₽
Airborne Video Tape Recorder/ Cockpit TV Sensor	8.4	7.2	5.8	6.8
Alternat Mission Equipment	14.6	12.3	15.0	11.4
Range rovement	14.0	5.3	18.1	9.9
LANTIRN	-	9	428.7	756.7
GPU-5/A (38MM Gun Pode)	29.6	-		-
Classified Avionics Program	2.3	-	152.9	119.1
Precision Location Strike System	-	74.7	36.0	23.9
NAVSTAR Global Positioning System	_	8.8	29.4	78.4
SAM Communication Replacement	8.9	-	-	-
TOTAL OTHER PRODUCTION CHARGES	1413.3	1877.4	2683.7	3302.3

Justification for the various line items is as follows:

Classified Projects:

Includes the Air Force Tactical Improvement Program and several National defense projects which are classified Special Access.

FOM Pods

Includes the procurement of new pcds, such as the ALQ-131, and update of inventory pcds, such as the ALQ-119, to maintain capability to counter the latest Soviet threats. The pcds are used on several tactical strike/recommaissance aircraft.

Airborne Video Tare Record: (AVIR)/Cockpit TV Sensor (CTVS):

The AVIR records all awin available at the aircrew headset and all video displays on the radar/Electro-Optical display and head-up display (BUD). Aircrews, rainterance crews, and combat and training units use the video tape recordings to analyze mission and training results and for multiparce trouble shooting. The AVIR and CIVS will be common to the entire tactical force. The CIVS will replace the existing cun carera which employs film; the advantage is that no film processing is required, making the data available for use immediately ofter landing. The CIVS will provide imagery data to the AVIR for recording, including a split-screen presentation for multiple video sources.

Alternate Mission Equipment:

The program procures electronic warfare and airborne photography/reconnaissance equipment to provide countermeasure capabilities against changing enemy electronic defenses or for other unpredicted and urgent operational requirements.

Range Improvement:

This is a joint Air Force/Nevy program to procure pods which provide accurate $(all_{i}) \approx kill$ data for assessment of tactics and aircrew training at the Air Combat Maneuvering Range. The pod is mounted on a stance of launch rail and transmits attitude, airspeed, altitude, angle of attack, and weapons information to ground sites.

Low Altitude Navigation and Targeting Infrared System for Night (LANTIRN):

Includes procurement of new pods to provide a night, under weather capability on the A-10, F-16, and F-15E amoraft to attack ground targets on low lend mission in a single pass.

Classified Avionics Program:

This is a Classified Program and Special Access is required for programmatic details.

Precision Location Strike System (PLSS):

PLSS is designed to locate, identify, and guide standoff weapons or attack aircraft on enemy emitters in all-weather conditions throughout the theater of operations. This effort funds the baseline location mission PLSS. The strike mission funding is provided in the appropriate aircraft and weapon lines in accordance with Congressional intent.

NAVSTAR Global Positioning System:

NAVSTAP GPS is a space-based radionavigation system which will provide users their position (accurate to 16 Meters), velocity (.1 meters per sec) and time (.1 microsecond) on a 24 hour per day, all weather, worldwide basis. The GPS satellite segment is in production and will provide an initial operational capability in FY 1987 and its full capability in FY 1988. The DoD policy is for GPS to replace all existing radionavigation systems on military aircraft by the mid 90's. This appropriation funds NAVSTAR GPS user avionics for all USAF aircraft plus the Air Force share of GPS production start-up costs.

COMPARISON OF PY 1984 PROCEAN REQUIREMENTS AS REPLECTED IN PY 1985 HUNGET WITH PY 1984 PROCEAN REQUIREMENTS AS SHOWN IN PY 1986 HUNGET

SUMMARY OF REQUIREMENTS (In Thousands of Dollars)

	Total Program Requirements Per 1985 Budget	Total Program Requirements Per 1986 Budget	Increase + or Decrease -
Combat Aircraft	\$10,202, 800	510,088,430	-\$113,579
Airlift Aircraft	1,519,989	1,526,496	+7,400
Trainer Aircraft	5.800	6,875	+275
Other Aircraft	172,499	172,498	S
Modification of In-Service Aircraft	2,635,319	2,783,988	+67,598
Aircraft Spares and Repair Parts	4,689,488	4,599,160	-10,300
Aircraft Support Equipment and Facilities	2,252,866	2,221,610	-31,19 6
Reinbursable Program	275,828	195,889	-79,939
Total Piscal Year Program	21,662,738	21,513,884	-149,726

EXPLANATION BY BUDGET ACTIVITY

- 1. Combat Aircraft (-\$113.6 million). The net decrease is the result of: approved reprogrammings to Research Development Test and Evaluation, Defense Agencies, (KC-10, -\$2.5 million; F-16, -\$3.0 million), to Research Development Test and Evaluation, Air Force (F-16, -\$8.0 million; F-15, -\$13.0 million), and to Operations and Maintenance, Air Force, (2-16, -\$9.6 million); and reprogramming within the Aircraft Procurement appropriation (-\$77.5 million).
- 2. <u>Airift Aircraft</u> (+\$7.4 million). The increase is a result of reprogrammings within the Aircraft Procurement appropriation.
- 3. Trainer directed (+9.3 million). The increase results from reprogrammings within the Aircraft Procurement appropriation.
- 5. Modification of In-Service Aircraft (+\$67.6 million). The net increase is the result of: approved reprogrammings to Research Development Test and Evaluation, Air Force (B-52, -\$2.5 million); and reprogrammings within the Aircraft Procurement appropriation (+\$69.1 million).
- 6. Aircraft States and Repair Parts (-\$18.3 million). The net decrease is the result of: approved Reprogramming to Operation and Maintenance, Air Force, (-\$14.5 million); and reprogramming within the Aircraft Procurement appropriation (+\$4.2 million).
- 7. Aircraft Support Equipment and Facilities (-\$31.2 million). The net decrease is the result of: approved reprogrammings to Research Development Test and Evaluation, Defense Agencies, (War Consumables, -\$7.8 million), to Research Development Test and Evaluation, Air Force, (Other Production Charges, -\$7.1 million; War Consumables, -\$18.4 million), to Operations and Maintenance, Air Porce, (War Consumables, -\$6.9 million); and reprogrammings within the Aircraft Procurement appropriation (+\$1.8 million).
- 8. Reimbursable Program (-\$79.9 million). The decrease is a result of receipt of fewer cumtommr orders than anticipated.

CT. PERISON OF PY 1984 FINANCING AS REFLECTED IN PY 1985 HIDGET WITH PY 1984 FINANCING AS SHOWN IN PY 1986 HIDGET

	(In The	(In Thousands of Dollars)				
	Financing Per FY 1985 Budget	Pinancing Per FY 1986 Budget	Increase(+) or Decrease(-)			
rogram Requirements	21,662,730	21,513,964	-149,726			
Program requirements (Service Account) Program requirements (Reimbursable)		(21,317,915) (195, 8 89)	(-69,795) (-79,931)			
ess:						
Anticipated Reimbursements	275,020 323,100	195,089 323,100	-79,931 8			
Àd:						
Transferred to other accounts	15,500	69,795 15 ,500	+54,295 +15,500			
ppropriation	21,889,118	21,080,110	9			

EXPLANATION OF CHANGES IN PINANCING

The Fiscal Year 1984 program has decreased \$149,726 thousand since submission of the FY 1985 Budget. Adjustments by category of financing are explained below.

- 1. Anticipated Reimbursements. The decrease of \$79,931 thousand is due to receipt of fewer customer orders than anticipated.
- 2. Transfer to Cther Accounts. The decrease of \$54,295 thousand is due to approved reprogrammings.
- 3. <u>Unobligated Balance to Pinance Subsequent Year Budget Plans</u>. The decrease of \$15,500 thousand is due to an anticipated reprogramming from the Aircraft Procurement program.

COMPARISON OF FY 1985 PROGRAM REQUIREMENTS AS REFLECTED IN FY 1985 BUIGET WITH FY 1985 PROGRAM REQUIREMENTS AS SHOWN IN FY 1986 BUIGET

SUMMARY OF REQUIREMENTS (In Thousands of Dollars)

	Total Program Requirements Per 1985 Budget	Total Program Requirements Per 1936 Budget	Increase + or Decrease -
Combat Aircraft	\$13,669,880	\$12,710,600	-\$959,288
Airlift Aircraft	2,154,500	1,932,800	-222,500
Trainer Aircraft	126,700	126,000	-700
Other Aircraft	249,500	219,800	-29,700
Modification of In-Service Aircraft	3,382,100	3,774,785	-307,315
Aircraft Spares and Repair Parts	5,990,200	5,325,960	-664,300
Aircraft Support Equipment and Facilities	3,193,700	2,688,981	~414,719
Peimbursable Program	279,020	279,828	8
Total Fiscal Year Program	\$28,955,528	\$26,357,886	-2,598,434

EXPLANATION BY BUDGET ACTIVITY

- 1. Combat Aircraft ~ (-\$959.2 million). The decrease is a result of Congressional adjustments to the FY 1985 request (E-1, -\$31.6 million; F-15, -\$98.1 million; F-16, -\$714.8 million; Tactical Fighter Derivative Aircraft, -\$26.6 million; KC-10, -\$82.1 million; MC-130H, -\$6.0 million).
- 2. Alrlift Aircraft (-\$222.5 million). The net decrease is the result of Congressional adjustments to the FY 1985 request (C-5B, -\$417.3 million; C-130H, +\$288.0 million; C-12, +\$12.9 million; C-20A, -\$3.2 million); and an anticipated reprogramming (C-5, -\$162.0 million).
- 3. Trainer Aircraft (-\$.7 million). The decrease is the result of a Congressional reduction to the FY 1985 request for T-46A.
- 4. Other Aircraft (-\$29.7 million). The net decrease is the result of Congressional adjustments to the FY 1985 request (HH-60, -\$16.5 million; TR-1/U-2, -\$41.7 million; C-20A, +\$20.0 million) and an anticipated reprogramming (+\$8.5 million).

- 5. Modification of In-Service Aircraft (-\$307.3 million). The ret decrease is a result of Congressional adjustments on the FY 1905 request for numerous modific tion programs (-\$325.4 million) and an anticipated reprogramming (+\$18.1 million).
- 5. Aircraft Spaces and Reprir Parts '-\$664.3 million). The net decrease is the result of Congressional adjustments to the FY 1995 request (-\$628.1 million), and an anticipated reprogramming (-\$36.2 million).
- 7. Aircraf: Support Equipment and Facilities (-\$414.7 million). The net decrease is a result of Congressional adjustments to the FY 1985 request (Common Ground Equipment, -\$74.4 million; Industrial Responsiveness, -\$11.8 million; War Consumables, -\$118.9 million; Other Production Charges, -\$211.8 million) and an anticipated reprogramming (+\$1.4 million).

COMPARISM OF PY 1985 FINANCING AS REFIECTED IN FY 1985 BENGST WITH FY 1985 FINANCING AS SYAN' IN FY 1986 BUIGET

383.00 LIBERT AND 144		usands of Dollars)	
Program requirements (Service Account)	Financing Per FY 1985 Budget	Financing Per FY 1986 Budget	Increase(+) or Decrease(-)
rogram Requirements	28,955,528	26,357,086	-2,598,434
Program requirements (Service Account)		(26,278,866) (279,32 8)	(-2,598,434) (-)
æss:			
Anticipated Roumbursements	279,828	279,020	•
Add:			
Transferreô to other accounts	-	110,200	+110,200
Appropriation	28,676,500	26,188,266	-2,488,234

EXTAGRATION OF CHANGES IN FINANCING

The Fiscal Year 1965 program has decreased \$2,598,434 thousand since submission or the PY 1905 budget. Adjustments by category of financing are explained below:

- 1. Transferred to Other Accounts. The decrease of \$115,250 thousand is due to an entiripated reprogramming from the Aircraft procurement appropriation.
 - 2. Appropriation. The decrease of \$2,488,234 thousand is the result of Congressional edjustments to the FY 1985 Budget.

PLIGHT SIMULAYOR C OTHER TRAINING EQUIPMENT (Dollars in Millions)

4 Pebruary 1985 FY 86 President's Budget

APPROPRIATION: Aircraft Pronurement, Air Force

		•										
Veuo-s System	De:	P-1 Line Item	Pr 84	& Prior	Qty	85 <u>Amt</u>	<u>FY</u> <u>Çty</u>	86 Ant	FY <u>Sty</u>	E7 Amt	FY Qty	86 <u>Amt</u>
B-JB	WST & MT CPT Spares TOTAL	61 61 60			2/0 6 2/0/6	99.9 29.0 10.4 139.3	<u> 2/2</u>	70.6 8.6 79.2		1.6		1.7
C-5	AIS(WST/CFT) ANPIT Spaces TOTAL	14 14	5/4 6/4	99.5 	3	4.2 14.5 1.1 19.8		22.6				
C-141	ARPTT Spares TOTAL	61 60			; 3	18.2 1.1 19.3						
3F-111A	OFT Spares FOTAL	61 6c		1.0 2.0 3.0	1	23.4						
F-15C/D F-15E	oft WST CPT M.F YOTAL	14 14 14	13	83.2 206.7		€€.4 66.4	1 2 1/1/2	17.6 32.0 .8 <u>67.6</u> 117.4	1 3 1/3	35.1 5.8* 23.7 64.6	1 2 1/2	36.5 1.0 25.1 62.0
F-16C/D	opt Pit Mie Total	6 6	15**	284.9 9.4 190.0 484.3	6 + *	126.6 1.6 39.3 165.5	3**	76.2 2.1 117.3 195.6	7 **	223.0 3.5 41.8 268.3	5**	179.5 3.5 56.8 239.8
ಗೆ∪-10A	ns CPT/BOPTT TOTAL	8 8	3 3/2 3/3/2	53.4 12.1 65.5	<u>0/1</u> 0/:	2.1						
C-130	wst	61			2	13.2	- - 5	<u>13.5</u>	$-\frac{1}{1}$	$\frac{7.3}{7.3}$		

^{*}Includes computer based instruction

^{***}Quantities for F-16 simulators include the basic OFT only; the OFT funding includes the basic OFT plus Digital Radar Land Mass Simulation (DRIMS), the Electronic Warfare Training Device (EWTD), and the Lantirn Simulation Capability (FY 84 also included 14 Avionics Familiarization Trainers (AFT)).

Exhibit P-43 (perm. of 4)

FLIGHT SIMULATOR & OTHER TRAINING EQUIPMENT (Sollars in Millions)

4 February 1985 FY 86 President's Budget

APPROPRIATION:	Aircraft	Procurement,	Air	Force
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		-					
We∋pon System	Туре	P-1 Line Item	FY 84 & Prior Oty Amt	FY 85 Oty Ant	FY 86 Oty Amt	FY 87 Qty Amt	FY 88 Oty Amt
T-46A	OFT MTE TOTAL	21		$-\frac{2.6}{2.6}$	7.4	$ \begin{array}{ccc} 3 & 27.4 \\ 5.2 \\ \hline 32.6 \end{array} $	2 12.9 5.3 18.2
A-10	HTE TOTAL	61			2.4		
hH-60A	PYT Total	24				6 .8	$\frac{3}{3}$ $\frac{.4}{.4}$
F-4	PTT Total	61				5 20.8 5 20.8	<u>.</u>
C-17	MST CPT ARPTT COURSEWARE M.E Tota!	16 16 16 16 16					6.5 6.5
JATOT			859.1	452	438.2	396.0	329.2

PLIGHT SIMULATOR & OTHER TRAINING EQUIPMENT (Dollars in Millions)

4 February 1985 FY 86 President's Budget

APPROPRIATION: Aircraft Procurement, Air Force

Weapon System	Type	P-I Line Item	Cty	Amt	Sty	90 <u>∧mt</u>	Cost to C	Complete Amt	Total C	Amt
B-1B	VST & MT CPT Spares	61 61 60		5.3		5.5			4/2 6	184.7 29.0 19.0
	TOTAL .			5.3		5.5			4/2/6	$\frac{19.0}{232.7}$
C-5	ATS(WST/CPT)	14 14							6/4	126.3 14.5
	Spares	60							3	
	TOTAL	••							6/4/3	142.0
C-141	ARPTY	61							3	18.2
	Spures TOTAL	60							3	$\frac{1.1}{19.3}$
EF-111A	OFT	61							1	24.4
	Spares TOTAL	5 0							1	26.4
F-15C/D	OFT	4							14	140.5
F-15E	KST	i,	2	76.0	1	41.5			6	221.1
	CPT	7	1	1.1	1	1.1			9	9.8
	MTE	4		41.8		32.7		2.9	-T-60	343.4
	TOTAL		2/1	118.9	171	75-3		2.9	14/6/9	714.8
F-16C/D	OFT	6 6		142.2		161.4		146.1	36	1281.9
	PIT MTE	6		2.7		2.2		3.5		28.5
	MIL	6		91,4 236,3		86.0 189.6		160.2 309.8	36	782.8 2073.2
KC-10A	MS	8 8							3	53.4
	CPT/BOPTT TOTAL	8							3/3 3/3/3	-68.2
C 120	. XC-011	61								
C-130	JST	07							<u>5</u> 5	$\frac{34.1}{34.1}$

Exhibit P-43 (Page 3 of 4)

FLIC AT SIMUL VIOR & OTHER TRAINING EQUIPMENT (Dollars in Millions)

4 February 1985 FY 86 President's Budget

APPROPRIATION: Aircraft Procurement, Air Force

Weapon System	Type	P-1 Line Item	FY FY	ンタ <u>Amt</u>	FY Qty	90 Amt	Cost to C	omplete Amt	Total Qty	Cost Amt
-7.5.	-2.E		7:1		3:4		334		334.	
T-46A	OFT	21	2	17.0	2	17.6	1	9.1	10	84.0
	MTE			$-\frac{.9}{17.9}$		$\frac{1.1}{18.7}$		1.4		23.9 107.9
	TOTAL		2	17.9	2	18.7	1	10.5	10	107.9
A-10	MTE	61								2.4
A-10	TOTAL	4.								5.4
нн–60а	PTT	5#							9	$-\frac{1.2}{1.2}$
	TOTAL									1.2
F-4	PTT	61							5	20.8
•	TATCT	••							<u>-5</u>	20.8
										_
C-17	WST	16	1	27.1			4	84.5	5 5 5	111.6
	CPT	<u> </u>	1	3.8			14	11.8	5	15.6
	ARPIT	15			1	9.4	ų	39.6	5	49.0
	COURSEWARE	16				11.9				11.9
	MTE	16		8.4		16.7		179.6		211.2
	TCTAL		1/1	10.6	1	38.0	4/4/4	315.5	5/5/5	399.3
TOTAL				417.7		327.€		638.7		3862.3

LEGEND: AGPTT Aerial Gunnery Part Task Trainer ARPTT Aerial Refueling Part Task Trainer BOPTT Boom Operator Part Task Trainer CPT Cockpit Procedures Trainer MS Mission Simulator MTE Maintenance Training Equipment OFT Operational Flight Trainer PTT Part Task Trainer WST Weapon System Trainer ATS Aircrew Training System

Exhibit P-43 (Page 4 of 4)

FY-86 APPROPRIATION; AIRCRAFT PROCUREMENT, AIR FORCE

MODIFICATION TITLE AND NO - MILSTAR AFSATCOM TERM UPGRADE/DUAL MODEM

MODELS OF AIRCRAFT AFFECTED; B-13

DESCRIPTION/JUSTIFICATION MODIFICATION PROVIDES PRINTED CIRCUIT BOARD REPLACEMENTS FOR THE AFSATCOM TERMINAL DUAL MODEM. MODIFICATION REQUIRED TO TRANSITION THESE TERMINALS TO MILSTAR, RESOLVE A POTENTIAL FREQUENCY INTERFERENCE PROBLEM, CORRECT FOTGE DEFICIENCIES AND TO PROVIDE PROPER FREQUENCY-HOPPING ALGORITHM FOR COMPA) IBILITY WITH CHANGES BEING MAKE TO THE AFSATCOM SATELLITE TRANSPONCER ON THE SATELLITE DATA SYSTEMS (SDS) SPACECRAFT.

SCOPE OF PROGRAM

0001C 01 7 1100K		IGR	FY	r-85	FY-86		FY-87		OJTYEAR		TOTAL	
	QTY	COST	2 T Y	COST	QTY	COST	217	COST	QTY	COST	QTY	COST
					100	5.1					100	5.1
BASIS FOR COST ESTIMATE;												
KITS					100	4.3					100	4.3
DATA SUPPORT-EQUIP						.5						.5
TOTAL			******		100	5.1					100	5.1

METHOD OF IMPLEMENTATION INSTAL ATION -- ORG/INTERMEDIATE LEAD TIME -- 11 MONTHS

FY-86 APPROPRIATION; AIRCRAFT PROCUREMENT, AIR FORCE

MODIFICATION TITLE AND NO ACM INTEGRATION

MODELS OF AIRCRAFT AFFECTED: 8-13

DESCRIPTION/JUST.FICATION INTEGRATES ADVANCED CRUISE MISSILE INTO 8-18 AIRCRAFT.

SCOPE OF PROGR		102	FY-85		F,	r-86	F.	Y-87	OJTYEAR		TO	TAL
	511	COST	51 A	COST	9 T Y	COST	2 T Y	COST	QTY	COST	QTY	COST
							8	38.5			8	38.5
BASIS FOR COST ESTIMATE;								3043			•	30,3
KITS DATA							8	22.0			8	22.0 2.5
SUPPORT-EQUIP PYLONS								10.0				10.0
TOTAL							8	38.5			8	38.5

METHOD OF IMPLEMENTATION INSTALLATION -- DEPOT LEAD TIME -- 24 MONTHS

FY-86 APPROPRIATION; AIRCRAFT PROCUREMENT, AIR FORCE

MODIFICATION TITLE AND NO VLF/LF MINIATURE RECEIVE PERMINALS (MRT)

MODELS OF AIRCRAFT AFFECTED; B-13

DESCRIPTION/JUSTIFICATION MRT WIL. PROVIDE SAC WITH STRATEGIC CONNECTIVITY THROUGH THE USE OF VERY LOW FREQUENCY/LOW FREQJENCY (VLF/LF) RADIO. THE MRT WILL PROVIDE A RECEIVE ONLY CAPABILITY TO ENSURE THE RECEPTION OF EXERGENCY ACTION MESSAGES.

SCOPE OF PROGRAM

		PRIOR		FY-85		FY-86		FY-87		EAR	TOTAL	
	QTY	COST	911	COST	4 1 A	COST	QTY	COST	QTY	COST	QTY	COST
							46	20.1	23	10.1	69	30.2
BASIS FOR COST ESTIMATE;												
KITS							46	20.1	23	10.1	69	30.2
TOTAL							46	20.1	23	10.1	69	30.2

METHOD OF IMPLEMENTATION INSTAL_ATION -- ORG/INTERMEDIATE LEAD TIME -- 24 MONTHS

FY-86 APPROPRIATION; AIRCRAFT PROCUREMENT, AIR FORCE

MODIFICATION TITLE AND NO ALCM-CARRIER INTERNAL (CSRL), MA-3142

MODELS OF AIRCRAFT AFFECTED; B .52H

DESCRIPTION/JUSTIFICATION (U) MODIFIES 96 B-52H AIRCRAFT WITH PROVISIONS FOR INTERNAL AIR LAUNCHED CRUISE MISSILE (ALCH) CARRIAGE. PROCURES THE COMMON STRATEGIC ROTARY LAUNCHER (CSRL) FOR INTERNAL CARRIAGE OF ALCM, SRAM, AND GRAVITY WEAPONS.

SCOPE OF PROGRAM

30012 31 1 4001		IOR	F	Y-85	F	r-36	F	1-87	0J T 1	Y E AR	TO	TAL
	QTY	COST	31	1203	QTY	COST	QTY	COST	QTY	COST	QTY	COST
BASIS FOR COST		13.3			5	75.0	23	174.4	58	403.5	96	662.9
ESTIMATE; Nonrecurring						12.5		8.1		11.2		31.8
KITS DATA					5	18.5	23	73.9	5.8	184.5	96	276.9 15.0
SUPPORT-EQUIP SIM/TRAINER AISF MOD						4.6 2.7 2.5		10.0		24.6 2.7		39.2 15.3 2.5
TOOLING CSR LAUNCHER		10.0			(6)	7.6 18.0	(27)	70.1		176.5		17.6 264.6
CSR ENUNCIER								70.1		170.3		
TOTAL		10.0			5	750	23	174.4	68	403.5	96	662.9

TO CAS -- POITA_IATER NOITATHAMMED TO GONTAM
SHTNOM ES -- SMIT CAST

+ LESS THAN \$ 50,000

5Y-86 APPROPRIATION; AIRCRAFT PROCUREMENT, AIR FORCE

MODIFICATION TIPLE AND NO ALR-172 ECH. H4-3145

MODELS OF AIRCRAFT AFFECTED; 8-52H

DESCRIPTION/JUSTIFICATION IMPROVES CAPABILITY TO PROVIDE DEFENSE AGAINST EXISTING AND PROJECTED AIRBORNE INTERCEPTOR THREATS. PROVIDES ADVANCED ELECTRONIC COUNTERGEASURES (ECR) TECHNIQUES, SOFTWARE REPROGRAMABILITY, AND INCREASED POWER.

SCOPE OF PROGRAM

		PRIOR		Y-85	F	1-86	F'	Y-87	OUTYEAR		TOTAL	
	QTY	COST	21 Y	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST
	2	61.8	7	96.3	23	113.0	23	109.6	61	184.4	96	565.1
BASIS FOR COST ESTIMATE;												
NONRECURRING	1	32.5		11.0							7	43.5
KITS DATA	1	17.2 5.8	7	37.5 12.9	23	103.5	25	106.9	41	184.4	95	442.5 18.7
SIM/TRAINER SUPPORT EQUIP		7.8	(9)	4.3 30.6		9.5		2.7				4.3 52.6
TOOLING		3.5		30.0		7.3		× • •				3.5
TOTAL	2	61.8	7	96.3	- 7	113.0	25	109.6	41	184.4	96	565.1

METHOD OF IRPLEMENTATION INSTAL_ATION -- DEPOT LEAD TIME -- 18 MONTHS

+ LESS THAN \$ 50,000

FY-86 APPROPRIATION; AIRCRAFT PROCUREMENT, AIR FORCE

MODIFICATION TITLE AND NG NAVSTAR GPS RETROFIT, MN-3150

MODELS OF AIRCRAFT AFFECTED; 3-52G/H

DESCRIPTION/JUSTIFICATION THE NAVSIAR GLOBAL POSITIONING SYSTEM (GPS' PROVIDES WCRLDWIDE THREE-DIMENSIONAL POSITIONING/NAVIGATION FOR MILITARY AIRCRAFT. SYSTEM IS COMPOSED OF THREE SEGMENTS: USER EQUIPMENT, SATELLITES AND A CONTROL NETWORK. SATELLITES BHOADCAST HIGH-ACCURACY DATA SIGNALS WHICH ARE RECEIVED BY USER SQUIPMENT TO COMPUTE PLATFORM POSITION AND VELOCITY AND PROVIDE STEERING VECTORS TO TARGET LOCATIONS. CONTROL SEGMENT DAILY UPDATES THE NAVIGATION MESSAGES BROADCAST FROM THE SATELLITES.

SCOPE OF PROGRAM TOTAL PRIOR FY-85 FY-36 51-87 OUTTEAR COST QTY 2TY COST COST COST RTY COST QTY 2TY QTY 16 8.1 34 6.5 115 24.1 165 38.7 BASIS FOR COST ESTIMATE; 3.2 2.9 1.2 2 163 HOMRECURRING 30.6 114 KITS DATA 6.2 SUPPORT-EQUIP .3 1.2 2.1 . 6 SIM/TRAINER 165 TOTAL 16 34 6.5 115 24.1 ≥8.7 8.1

METHOD OF IMPLEMENTATION INSTALLATION -- DEPOT LEAD TIME -- 20 MONTHS

FY-86 APPROPRIATION; AIRCRAFT PROCUREMENT, AIR FORCE

MODIFICATION TITLE AND NO 5-526 PAVE MINT, AN-3152

MODELS OF AIRCRAFT AFFECTED; 3-52G

DESCRIPTION/JUSTIFICATION PROVIDES AN UPDATE TO THE ALQ-117 ELECTRONIC COUNTERMEASURES SET FOR THE B-326 AIRCRAFT TO COUNTER AIRCURNE AND GROUND-BASED FIRE CONTROL AND MISSILE RADARS.

SCOPE OF PROGRAM PRIOR FY-85 FY-87 OJTYEAR TOTAL COST QTY CTY COST QTY COST QTY 5 T Y COST COST COST 22 90.0 27.1 5.0 17 62.8 30 115.0 27 96 370.9 BASIS FOR COST ESTIMATE; NONRECURRING 1.4 1.4 335.2 3.4 28.9 25 73.4 17 27 96.5 KITE 59.8 30 106.0 96 2.3 DATA SUPPORT-EQUIP 9.0 14.6 3.0 SIM/TRAINER 2.0 2.0 22 30 115.0 27 96 370.9 TOTAL 5.0 90.0 62.8 97.1

METHOD OF IMPLEMENTATION INSTALLATION -- DEPOT/FIELD TEAM LEAD TIME -- 24 MONTHS

* LESS THAN \$ 50,000

MODISICATION OF RIRCRAFT FY-86 PROSPAN

FY-86 APPROPRIATION; AIRCRAFT FROLUTEME IT, AIR FORCE

MODIFICATION TITLE AND NO 3-52H ACA INTEGRATION

*) DELS OF AIRCRAFT AFFECTED: 3-F2H

THE RESERVE THE PROPERTY OF THE PARTY OF THE

DESCRIPTION/JUSTIFICATION INTEGRATES ADVANCED CRUISE RISFILE INTO 95 9-52H ALRCHAFT. SCOPE OF PROGRAM

Store of Frage		IOR	£.	85	F	-86	71	r-87	110	YEAR	70	TAL
	917	COST	31 A	rzen	QT'	COST	416	COST	e ty	COST	211	COST
FASIS FOR CGST				****	,,	45.6	24	42.3	5 C	104.3	95	192.2
ESTIMATE; KITS DATA					11	10.0	24	23.0 3.3	60	2.7	95	73.0 10.1
SUPPORT-EQUIP PYLONS					(22)	15.0	(48)	12.0		42.1		19.0 70.1
YOTAL			702.		5 1	45.6	24	42.3	50	134.3	93	197.2

RETHOD OF IMPLEMENTATION INSTALLATION -- REPORT SHINGS -- 24 MONTHS

FY-86 APPROPRIATION; AIRCRAFT PROCUREMENT, AIR FORCE

MODIFICATION FITLE AND NO INTEGRATED CONVISTORES MAMAGEMENT SYSTEM

ADDELS OF AIRCRAFT AFFECTED: 3-920

DESCRIPTION/JUSTIFICATION THIS PROGRAM PROVIDES AM INTEGRATED CONVENTIONAL STOLES RANGEMENT SYSTIM USING MILITARY STANDARD 1763 SPECIFICATIONS FOR THE NON ALCH 1-5265. THE SYSTEM IS INTEGRATED INTO THE OFFENSIVE AVAILICS SYSTEM SOFTWARE AND WILL ENABLE THE B-326 TO CAPRY, PROGRAM, AND LAUNCH NEW CONVENTIONAL NEWFORS THAT ARE BUILT TO PILITARY STANCARD 1/63.

	PR	10%	f '	7-85 Ì	١,	F ş	-26	F.	Y-27	OUT	"EAR	T	9 i Å.
	RIY	CUST	31.4	COST	1	TY	COST	GTY	CUST	31 3	COST	GTY	EOST
		******	***	****		3	11.0	35	43.8	31	38.3	40	93.4
BASIS FOR COST ESTIMATE;					٠	-		•	,,,,,	•	,,,,,	,	
MONRECURRING							5.0			1			5.0
KITS DATA					•4	3	4.C 1.G	75	42.0	, 2:	38.6	59	54.6 2.0
SUPPURT-EQUIP							1.0		.8				3.8 3.
NOV OF TEARES										******			
TOTAL						3	.1.0	35	63.8	31	58.6	\$7	93.4

METHOD OF IMPLEMENTATION INSTALLATION -- DEPOT/FIELD TOAM CREW FINE -- 24 MORTHS

. LESS THAN \$ 50,000

\$5.86 APPROPRIATION: AIRCRAFT PROCUREMENT, AIR FORCE

MODIFICATION TABLE AND NO MILISTAR AFSATCOM TERM UPGRADE/DUAL HODER

MODELS OF AIRCRAFT AFFECTERS 9-526/H

LARIMANT MODIAS A SATE NO STRESS OF A CONTRACT WITH SOLVER SOLVER OF A CONTRACT TO STRESS OF A CONTRACT OF A CONTR

SCOPE OF PROGRA												
	: 8	IOR	f Y → 35		FY-86		fY-87		OJIYEAR		TOTAL	
	2 T Y	COST	31 A	COST	STY	COST	GTY	COST	STY	T 200	QTY	7200

					243	14.9					263	14.9
PASIS FOR COST												
ESTIMATEI												
ROMRECUPRINE						. 5						.5
KITS					263	12.5					263	12.6
DATA						. 7						.7
LUPPORT-EQUIP						1.1						1.1
JAFOT					263	14.9					263	14.9

STAIGBRESTAL\QPC -- HOLTELLATUR MOLTETHEMBLEGE RG GOWTEN SHINGH IT -- BMIT CASJ

FY-86 APPROPRIATION; AIRCRAFT PROCUREMENT, AIR FOPCE

MODIFICATION TITLE AND NO SYNTHETIC APERTURE RADAR (SAR)

MODELS OF AIRCRAFT AFFECTED; 3-526

DESCRIPTION/JUSTIFICATION SAR IS A HIGH RESOLUTION RADAR-A PULTIADDE, LONGHANGE RADAR THAT EMPLOYS SYMTHETIC/INVERSE SYNTHETIC APERTURE RAGAR TECHNOLOGY, IT JILL EMAGY. THE MOM-A'.CH 3-52G AIRCRAFT TO DETECT, TRACK, IDENTIFY, AND INGAGH MODILE, FIXED, AND RARITIME TARGETS USING CONVENTIONAL WEAPONS ANTWHERE IN THE WORLD WHILE MINIPIZIME AIRCRAFT EMPOSIZE TO LETHAL DEFENSES.

SCOPE OF PROGRAM

SCUPE OF PROGR		IOR	F1	1-85	f.	y-86	FY	-57	0011	EAR	YOZ	AL
	2 T Y	COST	3 t A	COST	977	COST	511	LOST	GTY	COST	GTY	COST
							4	::8.3	5 9	331.0	30	0.2.4
BASIS FOR COST ESTIMATE: NORECURZING								51.0		87.D		1380
KITS DATA							4	50.0	56	183.0 12.0	30	233.0
SUPPORT-EQUIP								1.0		12.0		1.0
SIM/TRAINER TOOLING								10.0		37.0		47.6
TOTAL	~~~~~						6	118.0	5.6	331.0	56	449.0

INSTALLATION -- DEPOT LEAD THE -- 18 FONTHS METHOD OF INPLEMENTATION

70

FY-88 APPROPRIATION; AIRCRAFT PROCUREMENT, 412 FORCE

MODIFICATION TITLE AND HO ENVIRONMENTAL CONTROL SYSTEM, MN-1*402B

MODELS OF AIRCRAFT AFFECTED: 8-526/H

DESCRIPTION/JUSTIFICATION UPGRADES THE EXISTING UNCILIABLE AND COSTLY ENVIRONMENTAL CONTROL SYSTEM MITH A NEW TECANOLOGY, HIGHLY RELIABLE SYSTEM. THE PRESENT SYSTEM IS VERY TROUBLESONE AND WILL DESCRIP UNSUPPORTABLE IN THE MEAR-TERM. THIS MOD WILL PROVIDE UPTRADES BLEED AIR FEMPERATURE RESULATION, ZONE TEMPERATURE CONTROL/CABIN AIR DISYATBUTION. TONSISTS OF PREUMATIC SYSTEMS PRECODLER CONTROL SYSTEM, UPDATE AND NEW ENVIRONMENTAL CONTROL UNIT (TOU). CONFIGURATION UPDATE TO ALLOW DELETION OF ODS/FROSS ON THE U-52H ALCH CAPABLE AIRCRAFT.

	PRI	o a	FY	-85	FY	-86	F.	7-87	OJT	YEAR	TO:	ΓAŁ
	RTY	COST	3 L A	COST	QTY	CSST	31 4	CAST	QTY	Taco	QTY	CCST
	142	1:7.6	62	29.5	59	29.4					263	176.5
BASIS FOR COST ESTIMATE;												
NONRECURRING		23.7										23./
KITS	142	87.5	62	29.3	59	28.5					263	145.3
DATA		2.6		.2		. 9						3.7
TRAINER SJPPORT EQUIP		1.0										1.0 2.8
TOTAL	142	117.6	52	29.5	59	29.4				******	263	176.5

RETHOD OF IMPLEMENTATION INSTALLATION -- DEPOT/FIELD TEAM LEAD TIME -- 24 MORTHS

+ LESS THAN \$ 50,000

P.C. San Control of Street

FY-85 APPROPRIATION; AIRCRAFT PROCUREMENT, AIR FORCE

MODIFICATION TITLE AND NO RABAR UPGRADE, MH-114088

MODELS OF ATECRAFT AFFECTED: 8-52 5/H

DESCRIPTION/JUSTIFICATION JILL JPGRADE EXISTING RADAR BY REPLACING OUTDATED, UNRELIABLE ITEMS WITH SOLID-STATE COMPONENTS. AN INTERIM MODIFICATION AND SPECIAL SUPPORT ACTIONS ARE REQUIRED TO ASSJRE RADAR SUPPORT BEYOND FY BS. RODIFICATION IS DRIVEN BY REM/SUPPORT REQUIREMENTS; SOME ACCURACY AND RESOLUTION IMPROVEMENTS WILL ACCRUE DUE TO UPDATED COMPONENTS.

SCOPE OF PROGRA	M PR]	109	£ v	-85	EY	-86	£ Y	r-87	410	FAR	101	r & L
	QTY "	cost	at Y .	COST	QTY.	COST	QTY.	COST	QTY	COST	QTY	COST
	11	95.5	56	98.2	63	82.7	62	69.4	65	77.0	263	422.8
BASIS FOR COST ESTIMATE;												
NONRECURRING		33.6			,-			(3.0		70.4	247	30.6 295.5
KITS Data	11	21.3 13.7	62	68.2 5.5	63	68.2 2.4	62	67.0 1.7	5.5	70.8 6.2	263	29.5
SUPPORT EQUIP		18.4 9.7		13.7 2.0		2.0		.7				34.1 13.7
SIMULATORS				3.5				••				3.5
MOD OF SPARES		1.8		5.3		8.8						15.9
TOTAL	11	93.5	62	98.2	63	82.7	62	69.4	65	77.0	263	422.8

METHOD OF IMPLEMENTATION INSTALLATION -- DEPOT LEAD TIME -- 18 MONTHS

. LESS THAN \$ 50,000

FY-85 APPROPRIATION; AIRCRAFT PROCUREMENT, AIR FORCE

MODIFICATION TITLE AND NO AUTOMATIC FLIGHT CONTROL UPDATE, MN-18420A

MODELS OF AIRCRAFT AFFECTED: 3-526/H

DESCRIPTION/JUSTIFICATION PRESENT AUTOPILOT IS SECOMING UNSUPPORTABLE AND IS SUBJECT TO UNSCHEDULED PITCH-JP/DOWN IN LGW-LEVEL AND ARRIAL REFUELING MODES, ROLL WALLOW, AND YAW OSCILLATIONS. MODIFICATION REPLACES ALTITUDE AND PARAMETER CONTROLS, MAIN AMPLIFIER, SERVO CONTROL AND STEERING COUPLER WITH A SOLID STATE LRU. MODIFICATION WILL IMPROVE CURRENT 18 HOUR MEAN TIME BETWEEN MAINTENANCE ACTIONS TO 100 HOURS.

SCOPE OF PROGRAM

1

SCOTE OF PROOK		IOR	FY	-85	FY	-86	£Y	-87	0.11	EAR	TO	TAL
	QTY	COST	2 T Y	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST
BASIS FOR COST			*****		65	20.0	160	30.8	38	5.8	263	56.6
ESTIMATE; NONRECURRING KITS DATA					65	2.0 10.0 4.0	160	24.5	38	5.8	263	2.0 40.3 4.0
SUPPORT-EQUIP SIM/TRAINER						4.0		2.9 3.4				6.9 3.4
TOTAL					65	20.0	160	30.8	38	5.8	263	56.6

METHOD OF IMPLEMENTATION INSTALLATION -- DEPOT/FIELD TEAM LEAD TIME -- 12 MONTHS

* LESS THAN \$ 50,000

FY-86 APPROPRIATION; AIRCRAFT PROCUREMENT, AIR FORCE

MODIFICATION TITLE AND NO VLF/LF RECEIVERS

MODELS OF AIRCRAFT AFFECTED: 8-52 4

1

DESCRIPTION/JUSTIFICATION VERY LOG FREQUEPCY/LOW FREQUENCY HINIATURIZED RECEIVE TERMINALS (MRT) WILL BE PROVIDED FOR THE 8-1/3-52, AND FB-111. ADDS A DIRECT VLF/LF RECEPTION CAPABILITY TO THE BOMBER FORCE. THE MRT JILL BE SECURE AND WILL INCORPORATE SIGNAL COMBINING AND MEECH MESSAGE PROCESSING MODE (MMPM).

SCOPE OF PROGRA		IOR	FY	r-85	F.	r-86	F	1-87	0.11	'EAR	TO	TAL
	QTY	COST	3 T Y	COST	QTY	COSI	QTY	COST	QTY	COST	ety	COST
			*****				18	49.0	78	143.1	96	192.1
BASIS FOR COST ESTIMATE;												
KITS				_			18	49.0	78	143.1	96	192.1
TOTAL							18	49.0	78	143.1	96	192.1

METHOD OF INPLEMENTATION INSTALLATION -- DEPOT LEAD TIME -- 24 MONTHS

FY-86 APPROPRIATION; AIRCRAFT PROCUREMENT, AIR FORCE

MODIFICATION TITLE AND NO ELECTRONIC COUNTER MEASURES UPGRADE

MODELS OF AIRCRAFT AFFECTED; FB-111

DESCRIPTION/JUSTIFICATION THIS MODIFICATION UPGRADES AND AUGMENTS THE CURRENT 68-111 SYSTEM TO COUNTER A NEW GENERATION OF ELECTRONIC THREATS. CHANGES WILL PROVIDE INCREASED THREAT RECOGNITION AND APPROPRIATE COUNTER MEASURES TO COMBAT THE NEW/MODIFIED THREATS.

SCOPE OF PROGRAM

	PR	OR	F	r-85	FY	-86	FY	-87	OUTY	EAR	TO	TAL
	QTY	COST	311	COST	QTY	TZCO	QTY	COST	QTY	COST	QTY	COST
BASIS FOR COST	*****				5	5.0	29	8.5	24	7.1	55	20.6
ESTIMATE; HONRECURRING KITS DATA SUPPORT-EQUIP					2	.5 .6 .5 3.4	29	7.5 1.0	24	7.1	55	15.2 1.5 3.4
TOTAL					5	5.0	.,	8.5	24	7.1	75	20.6

. LESS THAN \$ 50,000

FY-86 APPROPRIATION; AIRCRAST PROCUREMEN. AIR FORCE

MODIFICATION TITLE AND NO FB-111 COUNTERMEASURES DISPENSER

MODELS OF AIRCRAFT AFFECTED: FB-111A

DESCRIPTION/JUSTIFICATION THE A_E-40 CHAFF/FLARE DISPENSER WILL BE INSTALLED TO COUNTER THE CURRENT SURFACE TO AIR AND AIR TO AIR MISSILE THREAT.

SCOPE OF PROGR		IOR	F.	Y-85	FY	26	FY	1-87	110	YEAR	10	TAL
	61 A	cosi	31 A	COST	PTY	COST	a TY	TZGS	977	CGST	RTY	COST
BASIS FOR COST		*******			30	4.5	29	2.5	** /***	******	59	7.0
ESTIMATE; NONRECURRING KITS DATA					30	.5 2.5 .5	29	2.5			59	.5 5.0 .5
SUPPORT-EQUIP					30	4.5	29	2.5			59	1.0 7.0

METHOD OF IMPLEMENTATION INSTAL_ATION -- DEPOT LEAD TIME -- 12 MONTH'S

* LESS THAN > 50,000

FY-86 APPROPRIATION; AIRCRAFT PROCUREMENT, AIR FORCE

MODIFICATION TITLE AND NO - MILSTAR UHF TRANSITION

MODELS OF AIRCRAFT AFFECTED; FB-111

DESCRIPTION/JUSTIFICATION MODIFICATION PROVIDES PRINTED CIRCUIT BOARDS FOR THE A ATCOM TERMINAL DUAL MODEM. MODIFICATION IS REQUIRED TO TRANSITION THESE TERMINALS TO MILSTAR, RESOLVE A POTENTIAL FREQUENCY INTERFERENCE PROBLEM, AND PROVIDE PROPER FREQUENCY-HOPPING ALGORITHM FOR COMPATABILITY WITH THE SATELLITE DATA SYSTEM (SDS) SPACECRAFT.

SCOPE OF PROGRAM

SCOPE OF PROGR		103	F	Y-85	FY	-86	F	Y-87	OJT	YEAR	70	TAL
	QTY	COST	311	COST	QTY	COST	QTY	COST	QTY	CUST	QTY	COST
					59	3.7					59	3.7
BASIS FOR COST												
EST.MATE; Nonrecurring					1	.5					1	.5
KITS					58	2.7					58	2.7
DATA						.5						.>
TCTAL					59	3.7					59	3.7

METHOD OF IMPLEMENTATION INST...ATION -- ORG/INTERMEDIATE LEAD TIME -- 17 NUMBER

FY-86 APPROPRIATION; AIRCRAFT #ROCUREMENT, AIR FORCE

MODIFICATION TITLE AND NO AIM-9L CAPABILITY

MODELS OF AIRCRAFT AFFECTED. A-73/K

DESCRIPTION/JUSTIFICATION THE A-7 IS BFING PROVIDED A SELF-DEFENSE AIR-TO-AIR CAPABILITY USING THE AIM-9L MISSILE. THE MODIFICATION WILL INCLUDE ONLY A LIMITED POINT AND SHOOT CAPABILITY.

PR	IOR	F	Y~85	FY	7-56	F	Y-37	011	YEAR	TO	TAL
QTY	COST	31	EOST	211	COST	2 T Y	COST	STA	COST	QTY	COST
				363	3.3					363	3.3
				1	.2					1	.?
				362	1.2					362	1.2
					. 1						.1
					1.8						1.8
		****		303	3.3					363	3.3
		PRIOR QTY COST			4TY COST 2TY COST 2TY 363	9TY COST 2TY COST 2TY COST 363 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.3	9TY COST 9TY COST 9TY COST 9TY 363 3.3	9TY COST 9TY COST 9TY COST 9TY COST 363 3.3	9TY COST 2TY COST 2TY COST 2TY COST 2TY 363 3.3	9TY COST 2TY	9TY COST 2TY COST 2TY COST 2TY COST 2TY COST 4TY

METHOD OF IMPLEMENTATION INSTALLATION -- ORG/INTERMEDIATE LEAD TIME -- 18 MOTHS

FY-86 APPROPRIATION; AIRCRAFT PROCUREMENT, AIR FORCE

MODIFICATION TITLE AND NO A-7 2384 AMMO LOADER

MODELS OF AIRCRAFT AFFECTES. A-70/K

DESCRIPTION/JUSTIFICATION CONVERTS AFRORAFT TO ACCEPT LINKLESS 20MM SAMUNITION LJADING AND PROVIDES NEEDED ADAPTERS, ARTUNITION LOADERS AND REPLENISHERS FOR A COMPLETE SYSTEM TO REPLACE THE EXIST ING WORN-OUT LINKED LOADING SYSTEM. SUPPORT EQUIPMENT IS COMMON TO THE F-16 AND PROGRAMMED FOR THE F-15 AND F-4E.

SCOPE OF PAGGRAM PRICR QTY COST OUTYEAP GTY C TOTAL COST ATY COST COST COST COST 15.8 3.4 283 12.4 355 BASIS FOR COST ESTIMATE; KITS 72 3.3 283 12.4 355 15.7 .1 DATA TOTAL 72 3.4 283 12.4 355 15.8

METHOD OF IMPLEMENTATION INSTALLATION -- ORG/INTERMEDIATE LEAD FIME -- 12 MONTHS

FY-86 APPROPRIATION; AIRCRAFT PROCUREMENT, AIR FORCE

MCDIFICATION TITLE AND NO SLAVED AIM-9L CAPABILITY

MODELS OF AIRCRAFT AFFECTED; A-7

DESCRIPTION/JUSTIFICATION THIS NOT SLAVES THE ATM-9L CAPABILITY TO A HELNET-MOUNTED SIGHT ALLOWING FOR IMPROVED SELF DEFENSE THROUGH OFF-BORESIGHT TARGETING CAPABILITY.

SCOPE OF PROGRAM

		IOR	FY	r-85	F	1-36	FY	-87	VILO	EAR	TO:	ΓAL
	QTY	COST	2 T Y	COST	QTY	COST	QTY	COST	311	COST	QTY	COST
BASIS FOR COST						·	72	4.0	291	16.4	343	20.4
ESTIMATE; NONRECURRING KITS DATA							72	.1 3.8 .1	291	16.4	363	20.2
TOTAL							72	4.0	291	16.4	363	20.4

METHOD OF IMPLEMENTATION INSTALLATION -- ORG/INTERMEDIATE LEAD TIME -- 12 MGNTHS

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FY-86 APPROPRIATION; AIRCRAFT PROCUREMENT, AIR FORCE

MODIFICATION TITLE AND NO AIM-9L CAPABILITY

MODELS OF AIRCRAFT AFFECTED; A-10A

DESCRIPTION/JUSTIFICATION THE 4-1) IS BEING PROVIDED A SELF-DEFENSE AIR-TO-AIR CAPABILITY USING THE AIM-9L MISSILE. THE MODIFICATION WILL INCLUDE A SLAVED SEEKER HEAD TO PROVIDE A SLEWED MISSILE CAPABILITY.

SCOPE OF PROGRAM

SCUPE OF PROCE		IOR	FY	1-85	FY	~86	٤١	-87	4110	EAR	101	AL
	QTY	COST	314	COST	QTY	COST	211	COST	QTY	COST	QTY	COST
				2,3	550	16.6	170	9.1	590	13.4	680	41.4
BASIS FOR COST ESTIMATE; HONRECURRING				2.2								2.2
KITS Data				.1	220	6.3 1.0	170	4.7	530	6.0	680	17.0 1.1
SUPPORT-EQUIP LAUNCHERS TOOLING					(170)	1.5 4.0 3.8	(170)	4.4		7.4		1.5 15.8 3.8
TOTAL				2.3	550	16.6	170	9.1	293	13.4	68ŷ	41.4

STAIDSHMETAL'SEG -- NOI.A_JATZPI MOITATMEMPLAPPE TO DONTEM STAIDS 2 -- SM.T CASJ

* LESS TH. 5 50,000

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*CDIFICATION OF AIRCRAFT FY-86 PROCESS

FY-86 APPROPRIATION: AIRCRAFT PRODUREMENT, AIR FORCE

MODIFICATION TITLE AND NO DUTER HING TATEGUE RESC N. IN-103589

MOTELS OF ALMON PT AFFECTED, CHECK

DESCRIPTION/. USTIPITATION TO 13 ACCHIFFATIED ESTING TO DETERMINE FATIGLT LIMITS OF THE AIRFRAME A **A 3P FAILUFF ULLUR FORM THE COMER SKYN, 25 INCHES OF PORAPO OF THE CANDLEC BEAP PORAL COMPLÉTELY FAILUS FROM THE FR NT SPAP TY THE REAP SHA ALONG WITH ALL THEE COWER SPAR CAPS ANT THE UPSET FRONT SPAP CAP. THE . CIDEN OCCUPRED DURING AN EXTENDED TEST PROGRAMY TO THES 13.477 HPS).

SCOPE OF FRICAL

,	281	0.9	5 Y	-#5		Y-86	F	v - 9 7	0 U 7 Y	EAR	• 0	TAL
	4 + 1	CCs	314		QTI	7 2 C D		1200	G T Y	COST	QTY	COST
BASIS FOR COST		15.5	3.	2.5	ڊ. ڏر	,	30	٤.;	70	5.9	314	د ۲۰٫۶
ESTIMATE; NOWRECURHING CIIS DATA TOULING	137	1.4 7.3 .2 4.2	,	:.>	35	. ś	35	2.9	73	5.9	312	1.4 23.9 .2 4.2
TOTAL	159	15.6	,,,	2.5	35	2.8	35	2.9	70	5.9	314	29.7

TCG_U -- MOITA_JATZ#I MOITAT#313J9MI 10 GOHT3M ZF#MOM ST -- BMIT CA33

* LESS THAN \$ 50,000

FOOLFICATION OF AIRCRA-T

FY-86 APPROPRIATION; AIRCRAFT PROCUREMENT, AIR FORCE

MODIFICATION TITLE AND NO IN SGRATED DRIVE GENERATOR, MN-103473

MODELS OF AIRCRAFT AFFECTED: A-13

DESCRIPTION/JUSTIFICATION THE INTEGRATED DRIVE GENERATOR HAS BEEN A MAJOR CONTRIBUTO? TO MISSION ABORTS, INFLIGHT EMERGENCIES, AND HIGH NAINTENANCE TIME. THE UNIT WILL BE MODIFIED TO INCREASE CAPACITY AND OLI COOLING CAPABILITY. THESE CHANGES WILL PROVIDE 4 TEMPOLD INCREASE IN RELIABILITY.

SCOPE OF PROGRAM

SCOPE OF PRIGR		IOR	FY	~85	FY	-86	FY	-87	Y 7 U 0	EAR	Tul	TAL
	514	COST	31 A	COST	217	COST	2 T Y	1200	QTY	COST	QTY	COST
		~	1	1.2	149	4.0	200	5.3	289	8.2	639	19.5
BASIS FOR COST ESTIMATES				•			-					
NONR ECURR 146			1	.8							1	.8
KITS Duta				1	149	4.8	200	5.3	289	8.2	o38	18.3
SUPPORT-EQUIP				.3								.3
TOTAL			1	1.2	149	4.0	200	5.3	289	8.2	639	19.5

METHOD OF IMPLEMENTATION INSTALLATION -- ORG/INTERMEDIATE LEAD TIME -- OB MORTHS

. LESS THAN \$ 50,000

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MODIFICATION OF AIRCRAFT PAGE PROGRAM

FY-86 APPROPRIATION; AIPCRAFT PROCUREMENT, AIR FORCE

MODIFICATION TITLE AND NO ALE-43 CORRECTION OF DEFICIENCIES, MM-103488

MODELS OF AIRCRAFT AFFECTED: A-13

IPTION/JUSTIFICATION THE ALE-4C ACCESS PANEL IS NOT SEALED AND WATER INTRUSION IS CAUSING CORNOSION OF THE CHAFF AND FLAPE FIRING CIRCUITS. THIS CONDITION LEADS TO MISFIRES OR NO FIRING ADDITIONALLY, WIRING, CONNECTORS, AND ACCESS PANELS WILL BE MODIFIED TO IMPROVE HAINTAINABILIT AND SERVICEABILITY. DESCRIPTION/JUSTIFICATION

SCOPE OF PROGR												
	PR	ICR	FΥ	-85	FY	-86	F1	1-87	OUTY	(EAR	101	TAL
	QTY	1200	314	COST	QTY	COST	Bir	COST	QTY	COST	MIY	CCST
			151	2.7	200	3.7	200	4.2	94	2.0	645	12.6
BASIS FOR COST ESTIMATE;												
NONRECURRING			1	.1							1	.1
KITS			150	2.5	200	3.6	200	4.1	94	2.0	644	12.2
DATA				.1		.1		.1				.3
TOTAL			151	2.7	200	3.7	500	4.2	94	2.0	645	12.6

INSTALLATION -- DEPOT/FIELD TEAM LEAD TIME -- 12 MOPTHS METHOD OF IMPLEMENTATION

* LESS THAN \$ 50,000

FY-86 APPROPRIATION; AIRCRAFT PROCUREMENT, AIR FORCE

MODIFICATION TIT! AND NO TURBINE ENGINE MONITORING SYSTEM, MN-113089

MODELS OF AIRCRAF OFFECTED; A-10

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The state of

DESCRIPTION/JUSTIFICATION THE TJR3INE ENGINE MONITORING SYSTEM SELECTIVELY MONITORS ENGINE PERFORMANCE WHICH IS ULTIMATELY USED TO DETERMINE OUT OF TOLERANCE COMBITIONS. ANTICIPATED BENEFITS INCLUDE INCREASED AVAILABILITY AND MAINTENANCE EFFICIENCY, INCREASED DATA HANDLING EFFICIENCY, REDUCED LOGISTICS SUPPORT COST, AND IMPROVED ENGINE MANAGEMENT. THE T-38 ENGINE HEALTH MONITORING SYSTEM WAS SERVICE TESTED ON THE T-38 AND HAS BEEN ADAPTED FOR A-10 USAGE.

SCOPE OF PROFILE	M											
	PRI	SR	FY	-85	FY	-85	FY	-87	YTLO	EAR	T01	TAL
	RTY	COST	2 T Y	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST
	196	37.0	78	6.8	168	26.8	180	29.2	23	9.9	645	109.7
BASIS FOR COST						-		_				
NONRECURRING		4.5										4.5
KITS	196	23.3	78	5.8	168	21.3	180	24.2	23	3.3	645	78.9
SUPPORT-EQUIP						2.2		2.4		3.5		8.1
MOD OF SPARES		3.7								3.1		5.8
GROUND EQUIP		3.5				3.3		2.6				9.5
TOOLING		1.9										1.9
TOTAL	196	37.0	78	6.8	168	25.8	130	29.2	23	9.9	645	109.7

MAST TOOLST TOOL

. LESS THAN \$ 50,000

85

FY-86 APPROPRIATION; AIRCRAFT PROCUREMENT, AIR FORCE

RODIFICATION TIPLE AND NO TE-34 HOT SECTION, MN-122043

MODELS OF AIRCRAFT AFFECTED; A-10

DESCRIPTION/JUSTIFICATION THE ENGINE HOT SECTION, HISTORICALLY HAS BEEN THE PRIMARY CAUSE OF ENGINE MAINTENANCE. CURRENTLY, THE HOT SECTION LIFE IS LIMITED BY THE HIGH PRESSURE (HP) STAGE 1 TURBINE BLADE WHICH MUST BE REPLACED AFTER 180 HOURS OPERATING TIME AT MAXIMUM POWER (TAMP). TAMP MAINTENANCE REPRESENTS 30-40% OF THE TOTAL ENGINE CAUSED SHOP VISITS TODAY AND WILL GROW TO APPROXIMATELY SOX OVER THE NEXT FIVE YEARS.

SCOPE OF PROGRAM

	PRI	OR	F	r-85	FY	-86	F	r-87	out	YEAR	10	TAL
	211	COST	QTY	COST	914	1200	QTY	COST	31,	051	311	COST
	225	16.8	410	36.2	410	30.1	490	21.6			1535	104.7
BASIS FOR COST ESTIMATE;												
KITS Data	552	10.5	41)	15.5	410	16.7	49,	21.6			1535	64.5
SUPPORT-EQUIP (OOLING		4.2		6.0 3.7		8.G 4.0						14.0
MOD OF SPARES ADV PROCUPE.		2.0		10.0		1.2						2.0
TOTAL	225	16.8	410	36.2	410	30.1	491	21.6			1535	104.7

METHOD OF IMPLEMENTATION INSTALLATION -- ORG/INTERMEDIATE LEAD TIME -- 22 MONTHS

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FY-86 APPROPRIATION; AIRCRAFT PROCUREMENT, AIR FORCE

MODIFICATION TITLE AND 40 TF-34 VARIABLE GEOMETRY WEAR, MN-211389

MODELS OF AIRCRAFT AFFECTED; A-13

DESCRIPTION/JUSTIFICATION THIS PROGRAM INCORPORATES IMPROVED VARIABLE GEOMETRY SYSTEM LINKAGE TO MINIMIZE STALL MARGIM DETERIORATION AND PERFORMANCE SHIFTS DUE TO SYSTEM WEAR. SYSTEM VANE LEVER ACM RETAINERS WILL ALSO BE INCORPORATED TO ELIMINATE THE HAZARD OF TITANIUM COMPRESSOR FIRES CAUSED BY BLADE AND VANE FAILURES RESULTING FROM DISENGAGED VANE LEVER ARMS.

SCOPE OF PROGR	KA											
	PR	IOR	FΥ	-85	FY	-86	FY	-87	TLO	YEAR	TO:	TAL
	QTY	COST	3 T Y	COST	QTY	COST	BIA	COST	QTY	COST	QTY	COST
			420	2.7	420	2.3	233	1.5			1073	6.5
BASIS FOR COST ESTIMATE;												
NONRECURRING KITS			420	.1 2.2	420	2.3	233	1.5			1073	.1 6.0
DATA			420	.1	420	2.5	())	1.0			.0,,	.1
SUPPORT-EQUIP MOD OF SPARES			(287)	.3								.3
TOTAL			420	2.7	420	2.3	233	1.5			1073	6.5

METHOD OF IMPLEMENTATION INSTALLATION -- ORG/1),TERMEDIATE LEAD THIN -- 22 MOTHS

. LESS THAN \$ 50,000

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87

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FY-86 APPROPRIATION; AIRCRAFT PROCUREMENT, AIR FORCE

CIE-MAR) CH DNA BITT MOITASIRIDOM

MODELS OF AIRCRAFT AFFECTED: A-13

DESCRIPTION/JUSTIFICATION PROVIDES INTEGRATION OF CHEMICAL DEFENSE EQUIPMENT REQUIRED TO PROVIDE AIRCREW EYE/RESFIRATORY IN A CHEMICAL ENVIRONMENT. THE NEW CXYGFN SYSTEM PROVIDES POSITIVE PRESSURE BREATHING AIR WHICH REDUCES AIRCREW FATISUE.

SCOPE OF PROGRAM

30072 07 7400K		108	ţ,	-85	F'	Y-86	F	r-87	וזעס	EAR	TO	TAL
	QTY	COST	51 A	COST	QTY	COST	Q T Y	COST	QTY	COST	QTY	COST
BASIS FOR COST ESTIMATE;			*****				350	5.3	270	3.3	640	8.6
NONRECURRING KITS DATA SUPPORT-EQUIP SIM/TRAINER							1 349	.1 3.9 .1 1.2	290	3.3	639	.1 7.2 .1 1.2
TOTAL							350	5.3	?' ? 0	3.3	640	8.6

METHOD OF IMPLEMENTATION INSTALLATION -- ORG/INTERMEDIATE LEAD TIME -- 9 MONTHS

. LESS THAN \$ 50,000

FY-86 APPROPRIATION; AIRCRAFT PROSUREMENT, AIR FORCE

MODIFICATION TITLE AND NO APS-137 RWR REPLACEMENT, MN-2952

MODELS OF AIRCRAFT AFFECTED: F-45

DESCRIPTION/JUSTIFICATION PROVIDES IMPROVED THREAT WARNING TO AIRCREWS. REPLACES THE OUTDATED AND UNMAINTAINABLE APS-107, RADAR WARNING RECEIVER.

SCOPE OF PROGRAM

SCOPE OF PROGRA		OR	F	Y-85	F,	r-86	1	FY-87	110	YEAR	TO	TAL
	QTY	COST	31 A	COST	614	COST	*	COST	QTY	COST	QTY	C 0 6 T
	197	57.5			13	5.1					210	64.6
GASIS FOR COST ESTIMATE; NONRECURRING												
KITS DATA SUPPORT EQUIP	197	44.5 .4 14.6			13	4.0 .1 1.0					210	48.5 .5 15.6
TOTAL	197	39.5			13	5.1					210	64.6

METHOD OF IMPLEMENTATION INSTAL_ATION -- DEPOT/FIELD TEAM LEAD TIME -- 18 MONTHS

+ LESS THAN \$ 50,000

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89

FY-86 APPROPRIATION; AIRCRAFT PROCUREMENT, AIR FORCE

MODIFICATION TITLE AND HO PAPKHILL TAC SECURE VOICE, MM-3063

MODELS OF AIRCRAFT AFFECTED; RF-5

DESCRIPTION/JUSTIFICATION PARKHILL SECURE VOICE PROVIDES ON-LINE ENCRYPTION/DECRYPTION OF HF NARROW BAND FREQJENCY RANGES UP TO THE SECRET LEVEL. THE TSEC/KY-75 IS DESIGNED FOR OPERATION IN . L AIRCRAFT APPLICATIONS.

SCOPE OF PROGRAM

•••• • • • • • • • • • • • • • • • • •	PRI	OR	FY	r-85	FY	-86	F.	r-87	TLO	YEAR	T 0 1	TAL
	ETY	COST	31 A	COST	QiY	COST	211	COST	QTY	COST	QTY	COST
	196	11.0		~~~~~	75	2.0	55	3.1		*******	326	16.1
BASIS FOR COST ESTIMATE;												
NORRECURRING KITS	1 195	2.4 5.2			75	2.0	55	2.0			1 325	2.4 9.2
DATA TRAINER		1.8 1.6						1.1				2.9
TOTAL	195	11.6	••••		75	1.0	55	3.1			326	16.1

METHOD OF IMPLEMENTATION INSTALLATION -- DEPOT LEAD TIME -- 12 MONTHS

* LEST THAN \$ 50,000

FY-86 APPROPRIATION; AIRCRAFT PROCUREMENT, AIR FORCE

MODIFICATION TITLE AND NO ALR-75 RWR UPDATE, MN-3088

MODELS OF AIRCRAFT AFFECTED: F-4E/RF-4C

DESCRIPTION/JUSTIFICATION THIS MODIFICATION WILL REPLACE THE CURRENT ALR-46
RADAR WARNING RECEIVER WITH THE ALR-74. THIS UPDATE WILL ALLOW THE F-4E/RF-4C
TO OPERATE IN THE PROJECTED 1785-90 THREAT ENVIRONMENT. INSTALLATION
OF THIS SYSTEM REQUIRES A LIMITED CHANGE TO THE AIRTRAME.

SCOPE OF PROGRIM

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JUTE OF PROGRE	PQI	OR	FY	-85	FY	-86	FY	-87	0011	EAR	T01	FAL
	QTY	COST	311	COST	QTY	COST	511	COST	QTY	COST	QTY	COST
	81	100.9	71	43.1	111	65.9	198	98.1	185	109.7	646	417.7
BASIS FOR COST												
KONFECURRING	4	12.7									4	12.7
KITS DATA	77	40.0 3.5	71	35 0	111	65.7 .2	198	98.1	185	108.6 1.1	642	347.4 4.8
SIM/TRAINER SUPPORT EQUIP TOOLING		3.8 30.8 10.1		\$.1								3.8 38.9 10.1
TOTAL	81	103.9	71	43.1	111	65.9	198	98.1	185	109.7	646	417.7

METHOD OF IMPLEMENTATION INSTALLATION -- DEPOT/FIELD TEAM LEAD TIME -- 18 MONTHS

. LESS THAN \$ 50,000

FY-86 APPROPRIATION; AIRCRAFT PROCUREMENT, AIR FORCE

MODIFICATION TITLE AND NO LOROP CAMERA

MODELS OF AIRCRAFT AFFECTED; RF-4

DESCRIPTION/JUSTIFICATION THE RF-4C WILL BE EQUIPPED WITH A HIGH RESOLUTION LONG RANGE PHOTOGRAPHIC CAPABILITY USING A 65 INCH FOCAL LENGTH CAMERA. THIS ADDED CAPABILITY WILL PROVIDE PETTER OPTICAL DATA AS WELL AS IMPROVE THE SURVIVABILITY OF THE AIRCRAFT.

SCOPE OF PPOGRAM

	PRI	OR	F	r-85	FY	-86	FY	-87	01*1	E P R	101	TAL
	31 4	0057	314	COST	QTY	COST	QT,	COST	211	COST	QTY	LOSI
BASIS FOR COST	2	2.7			6	6.4	ó	6.8	3	3.6	17	19.5
ESTIMATE; NONRECURRING												
KITS DAT4	2	2.0			6	6.0	6	6.3	3	3.1	17	17.4
SUPPORT-EQUIP		.7				.4		.5		.5		2.1
TOTAL	2	2.7			6	6.4	6	6.8	3	5.6	17	19.5

METHOD OF IMPLEMENTATION INSTALLATION -- ORG/INTERMEDIATE LEAD TIME -- 12 MONTHS

* LESS THAN \$ 50,000

FY-86 APPROPRIATION; AIRCRAFT PROCUREMENT, AIR FORCE

MODIFICATION TITLE AND NO REMA RADAR UPCATE, MN-125043

MODELS OF AIRCRAFT AFFECTED: RF-4

DESCRIPTION/JUSTIFICATION THE RF-6 RADAR (APQ-99) WILL BE MODIFIED BY REPLACING OBSOLETE AND HIGH FAILURE COMPONENTS AND INSTALLING THE DIGITAL SCAN CONVERTER IN BOTH COCKPITS. THE PAVE TACK AIRCRAFT FILL ONLY HAVE FRONT RADAR SCOPE REPLACED. DUE TO THE AGE AND TECHNOLOGY CHANGES, THE EXISTING APQ-99 HAD BECOME NOWSUPPGRIBLE. THE PROPOSED MODIFICATION WILL ELIMINATE PARTS ORSOLENCE. ADDITIONALLY, MAINTENANCE COST SAVINGS ARE EXPECTED TO BE AT LEAST 59.0 MILLION PER YEAR.

SCOPE OF PROGRAM

SCOPE OF PROGRA	PRI	OR	FY	r-85	FY	-86	f :	- 37	TLO	YEAR	TOT	TAL
	91Y	COST	5 x X	1200	214	cost	8 T **	COST	QTY	TRCD	QTY	1200
BASIS FOR COST	1	14.1	107	48.3	180	45.0	25	6.8			313	114.2
ESTIMATE; Nonrecurring Kits	1	7.9	107	27.1	1 80	45.0	25	6.8			1 312	9.9 78.9
DATA SIM/TRAINER		4.2	(7)	13.2		.,,,,						4.2 13.2
SUPPORT EQUIP TOOLING				7.9								7.9
TOTAL	1	14.1	107	48.3	180	45.0	25	6.8			313	114.2

PAST TO TOTAL AND THE TENDER OF THE PAST O

* LESS THAN \$ 50,000

FY- 86 APPROPRIATION; AIRCRAFT PROCUREMENT, AIR FORCE

MODIFICATION TITLE AND NO INERTIAL NAVIGATION SYSTEM, MN-195018

MODELS OF AIRCRAFT AFFECTED: F-43

DESCRIPTION/JUSTIFICATION THE OPERATIONAL READINESS OF THE F-4G IS DESPAUED BY LOW RELIABILITY OF THE PRESENT INERTIAL HAVIGATION ATTACK SYSTEM.

REPLACEMENT OF THE INERTIAL VAVIGATION AND WEAPON DELIVERY SYSTEM WILL ENHANCE OPERATIONAL CAPABILITIES THROUGH INCREASED RELIABILITY AND MAINTAINABILITY RESULTING IN INCREASED WEAPON SYSTEM AVAILABILITY.

SCOPE OF PROGR	A4 PRI	OR	F.	Y-85	FY	r-86	F	Y-87	TLO	ı EAR	10	IAL
	QîY	1200	2 T Y	COSI	QTY	COST	914	COST	QTY	COST	QTY	COST
	40	51.9	36	23,6	26	18.2					102	93.7
BASIS FOR COST		,,,,	30	23,0	20	1012					100	, , , ,
ESTIMATE; Nonricurring	_1	17.0									!	17.0
KIIS DATA	39	17.8 5.2	35	21.6	26	17.6					101	57.0 5.8
SUPPORT EQUIP		11.9	(3)	2.0								11.9
TOTAL	40	51.9	36	23.6	36	18.2					102	93.7

METHOD OF IMPLEMENTATION INSTALLATION -- DEPOT/FIELD TEAM LEAD TIME -- 16 MONTHS

* LESS THAR > 50,000

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5Y-86 APPROPRIATION; AIRCRAFT PROCUREMENT, AIR FORCE

MODIFICATION TITLE AND NO STRUCTURAL FATIGUE, HN-52036A

MODELS OF AIRCRAFT AFFECTED; RF-4

DESCRIPTION/JUSTIFICATION ENGINEERING EVALUATION HAS DETERMINED THAT MODIFICATION TO THE UPPER ENGINE MOUNTS, AND LOWER TORQUE BOX SKIN ON RF-4C AIRCRAFT IS REQUIRED. THIS MODIFICATION WAS DONE ON F-4C/D AIRCRAFT AND WILL IMPROVE THE STRUCTURAL INTEGRITY OF THE RF-4C AIRCRAFT.

SCOPE OF PROGRAM

	PR	OR	FY	-85	FY	-86	÷Υ	-87	7700	EAR	701	TAL
	QTY	COST	314	COST	911	COST	3 T Y	COST	QTY	COST	RIL	TECS
			1	4.8	74	2.0	80	1.1	163	2.8	3:8	10.7
BASIS FOR COST				•				-		-	_	
ESTIMATE;											•	
NONRECURRING KITS			'	1.5	74	1.0	80	1.1	153	2.8	317	1.5
DATA				.8							• • •	. 8
TOOLING				2.5		1.0						3.5
TOTAL			1	4.8	74	2.0	83	1.1	163	2.8	318	16.7

METHOD OF IMPLEMENTATION INSTALLATION -- DEPOT/FIELD TEAM
I EAD TIME -- 12 MONTHS

. LESS THAN \$ 50,000

TRADOFICATION OF AIRCRAFT PARROORS 65-Y3

#Y-86 #PPEOP | IATION; AIRCRAFT PROCUREMENT, AIR FORCE

MODIFICATION TITLE AND NO SIMULATOR UFGRADE

MODELS OF AIRCRAFT AFFECTED; F-4

DESCRIPTION/JUSTIFICATION JPDATE THE F-4 SIMULATOR SP-4 DIGITAL COMPUTER WITH A NEW SYSTEM. AIRCREW TRAINING HAS BEEN DEGRACED DUE TO DIMINISHING SUPPORT FOR THE INTEGRATED CIRCUITS AND ELECTRONIC COMPUTER LOGIC EMILH ARE NO LONGER PROCURABLE. THE ALR-74 CAPABILITY HOW BEING ADDED TO THE F-4E WILL BE ADDED TO THE SIMULATOR ON THIS PROGRAM.

	PP	108	Fy	1-85	FY	-66	P 1	1~37	1 L D	YEAR	TO	TAL
	274	1200	51 A	1261	911	COSI	511	COST	GTY	COST	QTY	COST
					,	:0.5	â	21.0			14	40.5
SASIS FOR COST ESTIMATE;												
<175					6	19.5	ŝ	21.0			14	+0.5
TOTAL					 5	19.5	8	21.0		*******	16	40.5

ASTROO OF LAPLEMENTATION INSTALLATION -- DEPOT LEAD TIME -- 12 MOTHS

FY-86 APPROPRIATION; AIRCRAFT PROCUREMENT, AIR FORCE

MODIFICATION TITLE AND NO - 44 PERFORMANCE UPDATE, MR-5144

MODELS OF AIRCRAFT AFFECTED: F-43

DESCRIPTION/JUSTIFICATION JPD ATES THE F-4G AN/APR-38 SYSTEM TO PROVIDE THE CAPABILITY TO COUNTER THE PROJECTED THREAT.

SCOPE OF PROGRAM TOTAL FY-56 QTY COST FY-85 21Y COST FY-87 PRIOR BUTTEAR COST STY COST 31 212.0 526.2 5? 314.2 98 BASIS FOR COST ESTIMATE; 5.0 155.0 2.0 22.0 8.0 20.0 1 30 NONRECUPRING 1 5.0 314.2 97 469.2 7.0 XITS DATA 57 20.0 8.0 20.0 SUPPORT-EQUIP SIM/TRAINER TOOLING TOTAL 212.0 314.2 98 526.2

METHOD OF IMPLEMENTATION INCIDAL ARION -- DEPOT LEAU FIME -- 24 MONTHS

FY-86 APPROPRIATION; AIRCRAFT PROCUREMENT, AIR FORCE

MODIFICATION TITLE AND NO 20MM ANNO LOADER

MODELS OF AURCRAFT AFFECTED: F-4E

DESCRIPTION/JUSTIFICATION CONVERTS AIRCRAFT TO ACCEPT LINKLESS 20M AMMUNITION LOADING AND FROVIDES NEEDED ADAP/ERS. ANMINITION LOADERS AND REPLEMISHERS FOR A COMPLETE SYSTEM TO REPLACE THE EXISTING WORN-OUT LINKED LOADING SYSTEM. SUPPORT EQUIPMENT IS COMMON TO THE F-16 AND ALSO PROGRAMMED FOR THE A-7 AND F-15

SCOPE OF PROGRAM

SCOPE OF FROM		IOR	F ·	Y-85	F.	Y-86	F	7-87	011	YEAR	to	TAL
	QTY	1200	314	COST	QTY	cost	QTY	COST	QTY	COST	277	COST
							150	9.2	290	18.5	440	27.8
BASIS FOR COST ESTIMATE;	•						130	7.6	270	10,5	140	27.0
HONRECURRING KITS							150	9.1	270	18.6	440	27.7
DATA								.1	•			.1
TOTAL							150	9.2	290	18.6	440	27.8

METHOD OF IMPLEMENTATION INSTALLATION -- CRG/INTERMEDIATE LEAD TIME -- 12 MONTHS

. LESS THAN \$ 50,000

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'Y-86 APPROPRIATION; AIRCRAFT PROCUREMENT, AIR FORCE

MODIFICATION TITLE AND NO CHEM/313

MODELS OF AIRCRAFT AFFECTED: F-4

DESCRIPTION/JUSTIFICATION PROVIDES FOR INTEGRATION OF CHEMICAL DEFENSE EQUIPMENT REQJIRED TO PROVIDE AIRCREW EYE/RESPIRATORY PROTECTION IN A CHEMICAL ENVIRONMENT. HE NEW DIVIGEN SYSTEM PROVIDES POSITIVE PRESSURE BREATHING AIR WHICH REDUCES AIRCREW FATIGUE.

SCOPE OF PROGR												
	PR:	IOR	F	r-85	F.	Y - 36	FY	-37	2716	EAR	101	TAL
	QTY	1203	311	COST	QTY	COST	511	COST	OTY	COST	41 t	COST
BASIS FOR CCST		*******	*****		*****		5.5	2.6	87 6	28.0	898	30.6
ESTIMATE; Nonrecurring Kits							22	.1	875	28.0	898	.1 28.7
DATA SUPPORT-EQUIP SIM/TRAINER								1.5				1.5
TOTAL				****			55	2.6	876	28.0	398	30.5

METHOD OF IMPLEMENTATION INSTALLATION -- ORG/INTERMEDIATE LEAD TIME -- 12 MONTHS

. LESS THAN \$ 50,000

*CDIFICATION OF AIRCRAFT
FY-85 PROSPA*

FY-86 APPROPRIATION: AIRCRAST PROTUPEMENT, AIR FORCE

MODIFICATION TITLE AND NO AGRESSOR SZUADROM UPSPADE

MODEL! OF AIRCRAFT AFFECTED: F-5

DESCRIPTION/JUSTIFICATION - THE F-DE AGLESSON AIRCRAFT WILL BE MONIFIFD TO INCORPORATE A NEW LOGGER PANGE RADAR AND SIMPLE RADAR WARRING ESTELIVED TO JPGRADE TRITINING REALISM. THE RADAR IS CUR-RENTLY IN USE ON FMS F-SE AIRCRAFT.

SCOPE OF PROSPAN

3(3/2 3) 14034		ICA	f.	1-8%	F :	-88	ŧ	1-37	TLC	YEAR	ንሪና	* A C
	211	cos*	311	CCST	277	CGST	2.73	(0,	211	C G \$ 1	211	C 6 2 T
					70	25.3	~				76	6,65
Taga not 21248						.,,,,						
ESTIMATE; Honrecurping					,	٠.٥					1	1.0
KITS					6.5	22.0					69	55.0
DATA SUPPORT-EQLIP						1.2						1,2
TOTAL					70	25.0					70	25.0

PETHOD OF IMPLEMENTATION INSTALLATION -- DEPOTAFIELD TEAM LETS TIME -- 18 MONTHS

. LESS THEN \$ 50,000

MODIFICATI N OF AIPIRAFT FY-86 FROGRAM

17-36 APPROPRIATION; AIRCRAFT PRODUREMENT, SIP 10906

MODIFICATION TITLE AND NO - MULTI-STAGE RETROSTY PROGRAM: 4/8 SERIES, NA-3199

MODELS OF ASPCRAFT AFFECTED; F-15A/B

DESCRIPTION/JUSTIFICATION THIS MODIFICATION PROVIDES THE MF COMMUNICATIONS, PROGRAMMABLE SIGNAL PROCESSOR SYSTEM, MEW CENTRAL COMPUTER, ARRAAR, PROGRAMMABLE JAT MEMT CONTROL SYSTEM AND SPLIT SCREEN COCKPUT TV SENSOR. THESE CHANGES WILL BE INCORPORATED ON 1-15 A/B APPERAFT THAT ARE OPERATIONALLY ASSIGNED TO ACTAC AND ALASYAM AIR COMMAND.

SCOPE OF PROGRAM

SEGRE OF PROCK		108	F	Y-85	ş.	7-85	۰ ع	1-37	035	EAR	~ 5	TAL
	917	1862	314	COST	214	TZCS	411	0357	911	2057	& T Y	COS?
	;	11.4	4	12.5	17	27.9	33	54.7	136	219.6	533	328.1
GASIS FOR COST ESTIBATE:												
MOMRROJEPINS	•	9.4	4	7.6							5	17.0
e f 78					17	26.7	33	50.8	136	217.6	186	295,3
BATA		2.0		.8								2.8
まりかんひっしーとのっても						5.0		1.4		2.0		5.4
SIPITZBIKER								7.,5				2.5
1001 126				4.								4.1
					~							
きるすれた	1	11.4	4	12.5	3 /	79.1	3.3	34.7	136	219.6	101	3 < 8 . 1

METHOS & IMPLEMENTATION INTERLATION -- DEPOT LEAD TIME -- 24 MONTHS

. LESS THAN 1 50,000

101

15

TY-BE APPROPRIATION; AIRCRAF PRI UREMEN" AIR FORCE

RODIFICATION TITLE AND NO - FULTI-STAGE REPROPER PROBRANT FOR SERIES, WY 5192

MODELS OF ALREGATY AFFECTED. F-15C/D

DESCRIPTION/JUSTIFICATION THIS RODIFICATION PROVIDES AN ICCULCTROMIC JARFARE SYSTEM UPDATE, HEW CENTRAL COMPUTER, AMRAAM, PROGRAMMABLE ARRAMENT CONTROL PASTER, SPLIT-SCREEN COCKPIT TV SNESOR AND ALL ENVIRONMENT IO. THE 10 PORTION WILL INCLUSE FRACE VISUAL RANGE (BVR) CAPABILITY THROUGH THE USE OF INTERIM DUAL MODE PECOGNITION (IDMI) BY CIRCUIT CARD CHANGES IN THE APS-63 RADAR LRJs.

SCOPE OF PROGRAM

30 37 6 37 7 7 9 3 1	PP1	58	٤١	r~85	FY	-86	FY	-87	7110	EAR	101	AL
	WIY	C031	114	C631	314	COST	9 " Y	1200	QTY	COST	STY	COST
	2	15.9	27	29.7	63	64.3	83	59.5	139	135,8	314	276.2
BASIS FOR COST ESTIMATE:												
NONRECURZING	2	13.2	2	3.8							4	17.0
KITS			25	16.8	63	42.2	83	55.6	134	24.7	310	208.7
ATAG		2.2		. 4								2.6
SUPPORTHEQUIP				4.6		10.3		2.3		13.1		27.3
SIN/TRAIHER						1.,)						10.2
TOOLING		1.5		4.1								5.6
MOS OF SMARES						1.6		1.6		1,6		4.8
TOTAL	5	15.8	27	24.7	63	64.3	83	59.5	159	135.8	314	276.2

METHOD OF IMPLEMENTATION INSTALLATION -- DEPUT LEAD TIME -- 24 MONTHS

* LESS THAN S 50,000

4

FY-86 APPROPRIATION; AIRCRAFT PROCUREMENT, AIR FORCE

MODIFICATION TITLE AND NO HULTI-STAGE RETROFIT PROGRAM: ASAT, Mm-3:94

MODELS OF AIRCRAFT AFFECTED: F-15A

DESCRIPTION/JUSTIFICA-IGN THIS MODIFICATION PROVIDES NECESSARY CHANGES TO SFLECTED F-15 AIRCRAFT TO ACCOMMODATE ANTI-SATELLITE DEFLACE CAPABILITIES.

SCOPE OF PROGRAP	SCOPE	OF	PROGRAM
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Scupe of Phooni		IOR	F	48a	FY	'~&&	F	-97	OUT.	YEAR	10.	TAL
	BIL	COST	OTY	cosr	OTY	COST	QTY	COST	GTY	COST	OTY	cosy
BASIS FOR COST ESTIMATE:		****	*** **	9.0		38 1	***	59.0		116.1		222.2
HONRECUPRING DATA				.3		2.0		. 5		10.5		11.0
RU PORT-EGUIP OROUP A KIIS OROUP B KITS				+5 +4 7+0		.8 4 29.1		2.0 4.1 48.5		3.5 2.2 86.7		6.8 10.3 171.3
MOD OF SPARES				. 6		2.1		3.0		11.5		17.5
TOTAL				9.0		38.1		\$9.0	******	1:6.1		222.2

METHOD OF IMPLEMENTATION INSTALLATION -- DEPGT LEAD TIME -- 24 MONTHS

FY-86 APPROPRIATION; AIRCRAFT PROCUREMENT, AIR FORCE

MODIFICATION TITLE AND NO 2011 POITADIFIDOR

MODELS OF AIRCRAFT AFFECTED; F-15

DESCRIPTION/JUSTIFICATION CONVERTS AIRCRAFT TO ACCEPT LINKLESS 20MM AMMUNITION LOADING AND PROVIDES NEEDED ADAPTERS, AMMUNITION LOADERS, AND REPLENISHERS FOR A COMPLETE SYSTEM TO REPLACE THE EXISTING WORN-OUT LINKED LOADING SYSTEM. SUPPORT EQUIPMENT IS COMMON TO THE F-15 AND PROGRAMMED FOR THE A-7 AND F-4E.

SCOPE OF PROGRAM

	PR	IOR	F '	r-85	F	1-86	۴۱	-87	001	YEAR	10	TAL
	QTY	COST	3 T Y	COST	QTY	COST	QTY	TZCO	QTY	COST	QTY	COST
							156	9.1	592	36.3	748	45.4
BASIS FOR COST ESTIMATE;												
NONRECURRING								•				
K1TS							156	9.0	592	36.3	748	45.3
DATA								.1				-1
TOTAL							156	9.1	592	36.3	748	45.4

METHOD OF TAPLEMENTATION INSTALLATION -- ORG/INTERMEDIATE LEAD TIME -- 12 MONTHS

. LESS THAY \$ 50,000

FY-86 APPROPRIATION; AIRCRAFT PROCUPEMENT, AIR FORCE

CIE-MAH? ON ONE TITLE AND NO CHEM-310

MODELS OF AIRCRAFT AFFECTED; F-15 4/B/C/D

DESCRIPTION/JUSTIFICATION PROVIDES INTEGRATION OF CHEMICAL DEFENSE EQUIPMENT REQUIRED TO PROTECT AIRCREW EYE/RESPIRATORY SYSTEMS IN A CHEMICAL WARFARE ENVIRONMENT. THE MEW GXYGEN SYSTEM PROVIDES CONTINUOUS POSITIVE PRESSURE BREATHING AIR WHICH REDUCES AIR: REW FATIGLE.

SCOPE OF FROGR	AH											
	PR:	IOR	FY	r-85	FY	1-86	FY	-87	YTLO	EAR	101	TAL
	Q 1 Y	COST	411	COST	QTY	COST	GTY	COST	QTY	COST	QTY	COST
							463	6.4	412	5.0	875	1'.4
BASIS FOR COST												
ESTIMATE;												
NONRECURRING							1	.2			1	.2
KITS							462	5.3	412	5.3	874	10.3
DATA								*				
SUPPORT-EQUIP								.8				.8
SIM/TPAINER								.1				.1
			-									
TOTAL							463	6.4	412	5.0	875	11.4

MAST TO SHITON P - MOITATHSMAJAPI TO DESTINA

. LESS THAN \$ 50,000

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MODIFIC/TISH OF AIRCRAFT

FY-86 APPROPRIATION; AIRCRAFT PROCUREMENT, AIR FORCE

MODIFICATION TITLE AND NO RADAR RECEIVER PRE-AMPLIFIER, MN-621105

MODELS OF AIR.RAFT AFFECTED; F-15A/B

DESCRIPTION/ JSTIFICATION THIS IS A COMMODILY MODIFICATION (NO GP A) WHICH REPLACES THE EXISTING PRE-AMPLIFIER MODULE IN THE APG-53 RADAX SET WITH AN INTERCHANGEABLE MODULE DESIGN FIELD EFFECT TRANSISTOR (FET), WHICH PROVIDES IMPROVED PERFORMANCE, HISHER RELIABILITY (FROM 300 TO 1100 HRS MEAN-TIME-BETWEEN-DEMAND) AND LOWER LIFE CYCLE COSTS.

SCOPE OF PROSRAM

SCOPE OF THOU	PRI	OR	F '	r-85	FY	-85	FY	r-87	110	YEAR	101	AL
	QTY	COST	2T 1	cos-	QTY	COST	SIA	cest	QTY	5057	QTY	TROC
BASIS FOR C ST	108	3.9	115	3,3	48	2.6	49	1,3			350	11.1
ESTIMATE; NONRECURRING KITS DATA	1 1 0 7	1.0 2.1 .1	115	2.5	48	1.2	49	1.3			1 319	1.0 7.1 .1
SUPPORT ERF" Spares		.7	(35)	8.	(58)	1.4						2.9
TOTAL	108	3.9	115	3.3	48	2.6	49	1.3			320	11.1

METHOD OF MPLEMENTATION INSTALLATION -- DEPCT LEAD TIME -- 15 MONTHS

. LESS TIAN \$ 50,000

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TIARDRIA IC MOITADIRLES TRACER SERVE

>T-86 APPROPRIATIONS SERVERAFT PROCUPERENT, AIR SORCE

MODIFICATION TITLE AND NO. HOT FUEL RECIRCULATION SYSTEM, MM-A40278

MODELS OF AIRCRAFT ACFECIED: F-15

DESCRIPTION/J. STISICATION THE MODIF.ED HOT FUEL PECIRCULATION SYSTEM REMOVES THE ELEMENT AND SHUTOFF VALVE INFORMATION OF SOLENOID OPERATED VALVE IN EACH OF THE TWO PECIRCULATION LINES. THIS MOD ELIMINATES A SEPIOUS PROBLEM AND ADDS MEARLY 1% TO THE FLEETWIDE MISSION CAFABILITY RATE. IT WILL ALSO SIVE WRM DOLLAR, FOR THERMAL ELEMENTS. THE MOD HAS AN IMMEDIATE PRYOFF AND WILL BE QUACHASED AND INSTALLED AS RAPIDLY AS POSSIBLE. ALL PARTS OF THE SYSTEM ARE OF F-15 QUALIFIED DESIGN AND ARE LOCATED FOR EASY ACCESS WHEN REFLACTMENT OR REPAIR IS NECESSARY. THE MODIFIED SYSTEM HAS BEEN SUCCESSFULLY GROUND AND FLIGHT TESTED.

SCOPE OF PROGRAM

SCOPE OF PROGR		IOR	F	r-85	FY	-86	FY	1-87	0U T	YEAR	TO	TAL
	QTY	COST	21Y	COST	211	L0\$ T	9 T Y	COST	QTY	COST	QTY	COST
BASIS FOR COST	151	.8			480	2.0	123	.5			754	3.3
NONRECURRING KITS DATA	150	.5			480	5.0	123	.5			1 753	3.0
TOTAL	151	.8			480	2.0	123	.5			754	3.3

METHOD OF IMPLEMENTALION INSTALLATION -- DEPOT LEAD TIME -- 13 MONTHS

^ LESS THAN \$ 50,000

1.07

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FY-86 APPROPRIATION; AIPERAFT PROCUREMENT, AIR FORCE

UBCG45-PP .33PARRORGE ROTHSPBUA CEVCRAMI OF DAG SITT POLICATION

MODELS OF AIRCRAFT AFFECTED; F-15 ENGINE

DESCRIPTION/JUSTIFICATION THIS 400 REDESIGNS THE AUGMENTOR LOGIC OVERFUEL SYSTEM TO REDUCE AUGMENTOR INIATED FAN STALLS, ELIMINATES QUICKFILL NOISE BY DAMPING THE QUICKFILL SERVO VALVE AND RE/ITES THE CAM TO REDUCE THE ENGINE SUSCEPTABILITY TO RUMSLE AND EMSURE MORE ENGINE CONSISTENCY DURING TRANSIENT OPERATION.

	○ R 3	IOR	FY	r-85	FY	1-86	FY	-87	YTLC	EAR	T01	TAL
	QTY	CGST	2 T Y	COST	QTY	COST	QTY	COST	aty	COST	QTY	COST
							317	2.7	1586	13.4	1903	16.1
BASIS FOR COST ESTIMATE;												
KITS							3:7	2.5	1586	13.4	1903	15.9
DATA SUPPORT-EQUIP								.1 ,1				.1
SUPPORT-EQUIP								,1				•
TOTAL							317	2.7	1586	13.4	1903	16.1

METHOD OF IMPLEMENTATION INSTAL_ATION -- DEPUT LEAD TIME -- 5 MONTHS

TY-86 APPROPRIATION; AIRCRAFT PROCUREMENT, AIR FORCE

MODIFICATION TITLE AND NO ALR-76 RER RETROFIT

MODELS OF AIRCRAFT AFFECTED: F-15C/D

DESCRIPTION/JUSTIFICATION THE A.R-74 ReR WILL BE RETRO. (20 ONTO 244 EARLY PRODUCTION F-16C/D AIRCRAFT, THESE AIRCRAFT WERE FITTED WITH ALR-69S A THE AIRCRAFT WIRING FOR THE ALR-74 IN PRODUCTION.

SCOPE OF PROGR	AM											
	PR	IOR	F.	r-85	FY	-65	F'	r-87	110	Y E AR	TO	TAL
	QTY	COST	311	CC S i	RTY	COST	2 TY	1201	QTY	COST	QTY	COST
					5	2.6	146	93.5	76	52.5	244	148.6
BASIS FOR COST ESTIMATE;									-			
NONRECURRING KITS					2	1.0	146	93.5	96	52.5	2 242	1.0 146.C
DATA SUPPORT-EQUIP						.5						.5 1.1
TOTAL						2.6	146	93.5	76	52.5	244	148.6

METHOD OF IMPLEMENTATION INSTALLATION -- ORG/INTERMEDIATE LEAD IT ME -- 18 MONTHS

. LESS THAN \$ 50,000

FY-86 APPROPRIATION; AIRCRAFT PROCUREMENT, AIR FORCE

MODIFICATION TITLE AND NO - SPERATISMAL CAPABILITY UPGRADE

MODELS OF AIRCPAFT AFFECTED; F-15

DESCRIPTION/JUSTIFICATION THIS SODIFICATION WILL ADD ADVANCED WEAPONS CAPABILITY INCLUDING AIR—TO—AIR RADAR MISSILES TO FIVE NATIONAL GUARD SQUADRONS OF F-16 A/B AIRCRAFT. THE AIRCRAFT WILL SET A MINOR MO/IFICATION TO THE CUPRENT RADAR; A NEW DIGITAL SIGNAL PROCESSOR; AN ADVANCED CENTRAL INTERFACE UNIT (STORES COMPUTER); A DOUBLE SPEED, DOUBLE WEAPORY, DOUBLE MUX BUS FIRE CONTROL COMPUTER. THIS PROGRAM WAS TITLED AIR DEFENSE AMRAAM CAPABILITY IN THE FY 1984 AND FY 1985 BUDGET SUBMISSIONS.

SCOPE OF PROGRAM

.

SCOPE OF PROGRA		IOR	F	Y-85	F	7-36	F	Y-87	TLO	YEAR	TO	STAL
	BIA	COST	317	COST	QTY	COST	511	COST	GTY	COST	9 T Y	COST
BASIS FOR COUT	1	15.0	1	11.9	19	25.7	80	92.9	31	25.0	132	171.5
ESTIMATE; Nonrecurring Kits	1	12.0	1	11.9	19	15.0	8า	é5. 6	31	25.0	2 130	23.9 104.4
DATA SUPPORT EQUIP		1.4				9.7		27.5				1.4 39.8
TOTAL	1	15.0	1	11.9	19	25.7	80	92.9	31	25.0	132	171.5

MAST DJS17\TOGSO -- MCITA_JATZ#1 POITATMSMSJGPI 70 DOHTSM ZHTMOM 25 -- SMIT CASJ

. LESS THAN \$ 50,000

FY-86 APPROPRIATION; AIRCRAFT PROCUREMENT, AIR FORCE

MODIFICATION TITLE AND NO - ALL ENVIRONMENT ID

MODELS OF AIRCRAFT AFFECTED: F-15

DESCRIPTION/JUSTIFICATION THE RETROFIT OF THE AIR-TO-AIR INTERROGATION/ELECTRONIC WARFARE WARNING SYSTER WILL PROVIDE THE F-15 WITH THE JOILITY TO FULLY EMPLOY ADVANCED MEDIUM RANGE AIR-TO- IR HISSILE AND TO STRUCTURE TACTICS BASED UPON THE EXPECTED THREAT.

SCOPE OF PROGRAM

SCOPE OF FROM		102	- 1	r-85	F	7-86	F	r-37	OJTY	EAR	TO	r a L
	RIY	C 0 5 T	314	COST	QTY	COST	511	COST	QTY	1203	QTY	CCST
							180	11.5	416	145.5	596	177.0
DASIS FOR LOST	i								_			
ESTIMATE; KITS							150	31.5	416	145.5	596	177.0
TOTAL							180	31.5	4:6	145.5	598	177.0

METHOD OF IMPLEMENTATION INSTALLATION -- ORG/INTERMEDIATE LEAD IT PE -- 12 MOHIMS

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MODIFICATION OF AIRCRAFT LY-86 PROSPAR

FY-86 APPROPRIATION; AIPCRAFT PROCUREMENT, AIR FORCE

MODIFICATION TITLE AND NO COMBUSTOR SWIRLER

MODELS OF AIRCRAFT AFFECTED; F-15

DESCRIF.ION/JUSTI/ICATION THE COMBUSTOR BE HIM ROTALERCO BY TO LABORATE A BEHALL TO LABORATE AND ACCOUNT OF THE FUEL TO JIR RATTOR OF THE JIR RATTOR OF THE FUEL TO JIR RATTOR

SCOPE OF PROGRAM

SCUPE UP PROUNT		IOR	fΥ	-85	FY	-85	FY	-87	0 U T	YEAR	70	TAL
	e T ~	cost	211	COST	GTY	031	STY	COST	QTY	COST	QTY	COST
			491	4.0	600	4.0					1091	8.0
BASIS FOR COST												
ESTIMATE; Nonrecurring				. 2								.2
KITS			4 91	3.0	600	4.0					1091	7.0
DATA				.2								- 5
SJPPORT-EQUIP				.6								.6
TOTAL			491	4.0	500	4 0					1091	8.0

METHOD OF IMPLEMENTATION FOR TALLATION -- DEPOT SENSOR 21 -- 1411 CAP.

. LESS THAN \$ 50,000

SY-86 APPROPRIATION; AIRCRAFT PROCUMEMENT, AIR FORCE

ADDIFICATION TITLE AND NO SEAR TYPE MAIN ENGINE FUEL PUMP

AGDELS OF AIRCRAFT AFFECTED; f-15 JSAF

DESCRIPTION/JUSTIFICATION CURRENT VAME TYPE MAIN ENGINE FUEL PUMP DOES NOT PROVIDE RELIABILITY DESIRED FOR SINGLE ENGINE AIRCRAFT (F-16). GEAR TYPE PUMP NAS MUCH HIGHER RELIABILITY, LESS COST AND GREATER DURABILITY. SEAR TYPE PUMP HAS BEEN DEVELOPED FOR PRODUCTION INCOPPOPATION AND PETROFIT ON ALL F100-PW-200 ENGINES.

SCOPE OF PROGRAM

SCORE OF PROGRA	PRI	GR	£ 1	r-85	FY	-56	F	7-87	SJ	TYEAR	TO	TAL
	3 T Y	C ST	211	COST	214	COST	SIA	COST	. 614	COST	ēT1	CGET
	458	25.4	363	22.9	211	14.7					1029	64.0
BASIS FOR COSY ESTIMATE;					•							
XITS DATA	458	25.1 .3	3 63	25.9	211	14.7					1029	63.7
TOTAL	~58	25.4	360	25.9	211	14.7					1029	6÷.0
### A												

TOGSO -- POITALLATZE POITATESMALME TO CONTAR ZEFROR 25 -- 20IT CAST

. LESS THAN \$ 55,000

FY-86 APPROPRIATIONS AIRCRAIT PROISESMENT, AIR FORCE

STADRE DAS SERVER SUM OF CKC 4:311 MOITASTESOR

MODELS OF AIRCRAFT SPECTEDS F-150/6

DESCRIPTION/JUSTIFICATION THIS NOD ELIMINATES AN OPERATIONAL DEFICIENCY IN THE 5-16076 MUD WHEN OPERATING IN A MIGH "5" FNVIR) WHENT. THE DEFECTIVE LRJ WILL BE REPLACED TO INSURE CORFECT AIM-9 SEFKER HEAD OPERATION.

SCOPE OF PROER	7 k											
	FZ	10*	ş.	7-85	F :	r - 86	£	Y-8?	037	45 48	101	T&Ł
	2 T Y	CGST	3 T Y	COST	Q * Y	1203	274	COST	QTY	COST	QTY	COST
BASIS FOR COST					322	5.2	*****				355	5.2
ESTIMATE; MONRECURRING KITS DATA					1 321	1.5					1 321	1.0 4.2
TOTAL			*****		355	5.2		•••••			322	5.2

METHOD OF IMPLEMENTATION INSTALLATION -- ORG/INTERMEDIATE LEAD TIME -- 12 MONTHS

. LESS THAM \$ 50,000

TRANSPIA 40 MOITASIRIDOP PAQDORG 88 Y2

FY-86 APPROPRIATION; AIRCRAFT PROCUREMENT, AIR FORCE

RODIFICATION TITLE AND NO - IMPROVED OURABILITY COMBUSTOR

MODELS OF AIRCRAFT AFFECTED: F-15

DESCRIPTION/JUSTIFICATION SECTIONS OF THE COMBUSTS. HAVE EXPERIENCE, AXIAL AND CIRCUMFERENTIAL CRACKING WHICH CAN LEAD TO A PORTION OF THE L.IER BREAKING OFF AND ENTERING THE TUPBINE SECTION THIS CAN CAUSE FAILURE OF TJRBINE BLADES WHICH INCREASE. ENGINE MAINTENANCE AND CAN ALSO CAUSE POTENTIAL FLIGHT SAFELY PROBLEMS.

SCOPE OF PROGRAM

300 F 07 F 100 K		10R	FY	-85	F	r-86	1	r-87	110	YEAR	TO	fA'L
	QTY	COST	311	COST	917	COST	314	COST	211	COST	QTY	COST
			406	5.4	396	5.4					1102	10.8
BASIS FOR COST ESTIMATE;				.,.	• • • • • • • • • • • • • • • • • • • •							
NORRECURRING ETIX			4 C5	-? 4.9	396	5.4					1102	.2 10.3
DATA				. 3								. 3
TOTAL			-05	5.4	575	5.4					1102	۷.0°

METHOD OF IMPLEMENTATION INSTALLATION -- DEPOT/FIELD TEAM LEAD TIME -- 11 NONTHS

. LESS THAN \$ 50,000

TRANSCES 08-11

FY-86 APPROPRIATIONS AIRCRAFT PROJUREMENTS AIR FORCE

PRINTARE TRANSPIRE CH CKE BITT POITATION

MODELS OF AIRCRAFT AFFECTED; F-15

DELLIPTION/JUSTIFICATION ON THE MAINSHAFT BEARING (NUMBER S BEARING) DEVELOPS MICROSPALLING ON THE OUTER PACE WHICH CAN LEAD TO TO TO LOW RETOR SEIZURE AND SEVEPE LOW TURBINE DAMAGE. AN PROPORTION OF TOUR SEIZURE AND SEVEPE LOW TO TOUR OF THE PACE OF THE PAC

SCOPE OF PROSEAM

30000 07 -8339		ICP	F1	r-85	F	r-56	F	Y-37	0.1	YEAR	TO	TAL
	214	1203	311	COST	GIY	TZCO	311	COST	GTY	COST	QTY	COST
84SIS FOR COST ESTINATE;	*****		4 60	2.6	600	3,7					1000	6,3
NONRECURRING KITS			463	2.6	500	3.7		4			1000	6.3
TUTAL			4 00	2.6	500	3.7		7			1090	6.3

TOGGO -- MOITALLATZY MOTERTY) PELGEN TO CONTEM STORM ST. -- SRIT CAST

. LESS THAN S 50,000

TARGOTTATION OF AIRCRAFT FY-86 PROGRAM

5Y-86 APPROPRIATION; AIRCRAFT PROJUREMENT, AIR FORCE

MODIFICATION TITLE AND NO REF ANTENNA - LACEMENT

MODELS OF AIRCRAFT AFFECTED; F-15A/B

THE SCRIPTION/JUSTIFICATION THIS EFFORT INVOLVES RELOCATING THE FORWARD REF ANTENNAS FROM THE FUSELAGE TO THE LEADING EDGE FLAP OF THE WING. THE CURPENT ANTENNA LOCATION DOES FOR ALLOW THE RWR TO MEET ITS PERFORMANCE ENVELOPE ON THE F-16. THE MEW LOCATION CORRECTS THIS DEFICIENCY.

SCOPE OF FROGRAM

	PR	IOR	FY	r-85	FY	-86	FY	-87	YTLO	EAR	TO	AL
	QTY	1200	2 T Y	COST	21 4	cost	2 T Y	cost	211	COST	QTY	COST
			144	6.0	192	5.3	192	5.4	257	7.3	785	24.0
BASIS FOR COST	•											
NOMRECURRING KITS Data			144	.5 4.0 1.5	192	5.3	152	5.4	257	7.3	785	.5 22.0 1.5
TOTAL		•••••	144	6.0	192	5.3	192	5.4	257	7.3	785	24.0

RETHOD OF IMPLEMENTATION INSTALLATION -- DEPOT LEA- (1ME -- 24 MONTHS

. LESS THAN \$ 50,000

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FY-26 APPROPRIATION; AIRCRAFT PROCUREMENT, AIR FORCE

MODIFICATION TITLE AND NO - BACKUP CONTROL AUTORATIC START SYSTEM

MODELS OF AIRCRAFT AFFECTED: F-15A/8

DESCRIPTION/JUSTIFICATION THIS PROGRAM PROVIDES FOR AM AUTOMATIC START SYSTEM FOR THE BACKUP CONTROL AND TO MAKE THE AIRSTART PROCEDURES FOR BOTH PRIMARY AND BACKUP SYSTEM THE SAME.

SCOPE OF PROGRAM

Jeone or I kosk		IOR	F	r-85	F	r-86	FY	-87	ז טס	YEAR	TO	TAL
	QTY	COST	211	COST	211	COST	211	COST	QTY	COST	QTY	COST
BASIS FOR COST							650	21.7			650	21.7
ESTIMATE; DATA							650	21.5			650	21.5
TOTAL					*****		650	21.7			650	21.7

METHOD OF IMPLEMENTATION INSTALLATION -- ORG/INTERMEDIATE LEAD TIME -- 15 MONTHS

F1-86 APPROPRIATION; AIRCRAFT PROCUREMENT, AIR FORCE

HODIFICATION TITLE AND NO NAVSTAR GPS. MN-3150

MODELS OF AIRCRAFT AFFECTED; F/F3-111

DESCRIPTION/JUSTIFICATION THE NAVSTAR GLOBAL POSITIONING SYSTEM (G°S) PROVIDES WORLD JIDE THREE-DIMENSIONAL POSITIONING/MAVIGATION FOR MILITARY ATRORAFT. SYSTEM HAS 3 SEGMENTS:JI:R EQUIPMENT, SATELLITES, AND A CONTROL NETWORK. THE SATELLITES BROADCAST ACCURATE DATA WHICH USER EQUIPMENT RECEIVES, COMPLIES THE PLATFORM POSITION AND VELOCITY AND THEN PROVIDES STEERING VECTORS TO TARGET LOCATIONS OR MAVIGATION WAYPOINTS. THE COMTPOL SEGMENT DAILY UPDATES THE NAVIGATION RESSAGES BROADCAST TRON THE SATELLITES.

SCOPE OF PROGRA	.=											
	PR	IOR	F	r-85	FY-	-86	F	1-87	YILO	EAR	701	AL
	974	1203	211	COST	QTY	COST	514	COST	QTY	1200	GTY	COST
					1	3.1	51	12.2	309	57.8	361	73.1
BASIS FOR COST					•	7. 1	7.		30,	J* . 0	50.	
ESTINATE;												
NONRECURRING					1	3.1	3.	2.8	37	14.7	90	20.6
KITS							49	7.5	555	31.5	271	39.C
ATAC								1.2		5.7		6.9
SUPPORT-ERUIP								.7		4.0		4.7
SIM/TRAINER										1.9		1.9

3.1

51

12.2

339

57.8

361

73.1

TOGA -- NOITALLATA NOITATHAMAIGH TO GOHTAK SHINOM OS -- BMIT CABL

* LESS THAN \$ 50,000

TOTAL

FY-86 AP-COPRIATION; AIRCRAFT PROCUREMENT, A.R FORCE

MCDIFICATION TITLE AND NO AIM-9_ CAPABILITY

MODELS OF AIR PART AFFECTED; F-111

DESCRIPTION/JUSTIFICATION THE F-111 IS BEING PROVICED A SELF-DEFENSE AIR-TO-AIR CAPABILITY USING THE AIM-90 MISSILE. THE MODIFICATION WILL INCLUDE ONLY A LIMITED POINT AND SHOOT CAPABILITY.

SCOPE OF PROGRAM

	PRI	OR	FY	r-85	٤,	-86	FY	r-87	OUT	YEAR	10	T A L
	RTY	COST	3 I Y	COST	97 (C 0 S T	QTY	1200	QTY	COST	QTY	cos′
					325	2.5				******	335	2
BASIS FIR COST					,							
STAM. T23												
MONRECU∽RING KITS					334	.3					334	2.3
DATA						.1						.1
TUTAL					335	2.5					335	2.5

METHOD OF IMPLEMENTATION INSTALLATION -- ORG/INTERMEDIATE LEAD TIME -- 12 MONTHS

FY-86 APPROPRIATION; AIRCRAFT PROCUREMENT, AIR FORCE

MODIFICATION TITLE AND NO F-111 COUNTERMESSURE DISPENSER

MODELS OF AIRCRAFT AFFECTED; F/57-111

DESCRIPTION/JUSTIFICATION THE ALE-40 CHAFF/FLARE DISPENSER WILL BE INSTALLED TO COUNTER THE CURRENT SURFACE TO AIR AND AIR TO AIR MISSILE THREAT.

SCOPE OF PROGRAM FY-86 FY-35 ETY COST ety cost STY COST QTY COST 2TY COST 71.8 525 93.7 3.2 256 65 18.7 BASIS FOR COST FSTIMATE; 3.0 83.8 1.2 3.0 NONRECUPRING 3.0 4 321 16.7 KITS 67.1 2>0 65 . ? SUPPORT-EQUIP 2.0 SIM/TRAIMER 2.7 2.7

3.2

METHOD OF IMPLEMENTATION INSTALLATION -- DEPOT LEAD TIME -- 12 MIT CAST

. LESS THAN \$ 50,000

121

18.7

256

71.8

65

325

93.7

FY-86 APPROPRIATION; AIRCRAF ROLUREME T. AIR FORCE

MODIFICATION TITLE AND NO P/C. "30"/"100", MN-114038

MODELS OF AIRCRAFT AFFECTED; F/F3-1116/E/D

DESCRIPTION/JUSTIFICATION OF THE STATE OF THE STATE OF ST

SCOPE OF PROGRAM

	PRI	0.8	F.	r-85	F	-36	F	Y-87	710	YEÁR	TOT	AL
	Q T f	COST	211	C08*	214	COST	211	COST	Q TY	COST	RTY	COST
	939	114.1	120	37.3	77	29.2					1136	132.6
BASIS FOR COST EST*MATE;												
KITS DATA SUPPORT EQUIP TOOLING	939	112.6 1.3 .1	1 20	39.3	77	29.2					1136	181.1 1.3 .1
TOTAL	939	114.1	123	39.3	77	29.					1136	182.6

INSTALLATION -- DEPOT LEAD TIME -- 24 MONTHS METHOD OF IMPLEMENTATION

* LESS THAN \$ 50,000

122

FY-86 APPROPRIATION; AIRCRAFT PROCUREMENT, AIR FORCE

FODIFICATION TITLE AND NO F/F8-111 AZIONICS MODERALIZATION PROGRAM . MN-123568

MODELS OF AIRCRAFT AFFECTED; F-111

DESCRIPTION/JUSTIFICATION THIS MODIFICATION PROVIDES A RELIABILITY AND MAINTAINABILITY IMPROVEMENT TO THE F/F9-111 AVIONICS SUB-SYSTEMS. THE PROGRAM INCLIDES UPGRADES TO THE INERTIAL NAVISATION SYSTEM, TERRAIN FOLLOWING RADAR, ATTACK RADAR, DOPPLER RADAR AND CONTROLS/DISPLAYS. ONCE COMPLETE THE UPGRADES WILL PROVIDE A FOUR FOLD INCREASE IN MTBF, IMPROVED SORTIE RATES AND IMPROVED PROBABILITY OF KILL.

	PR	IOR	FY	1~85	Fi	1-86	FY	1-87	710	YEAR	TO	TAL
	937	1200	314	COST	QTY	COST	314	COST	QTY	COST	QTY	COST
		17.5	92	161.2	99	234.1	59	284.9	122	299.8	382	997.5
BASIS FOR COST							•					
ESTIMATE;												
MONRECURRING			3	10.4	1	43.9	1	55.5			5	109.8
KITS			89	126.8	98	176.3	68	200.0	122	293.4	377	796.5
DATA				1.6		1.5		7.0		2.0		12.1
SUPPORT-EQUIP				17.0		6.8		10.0				33.8
SIM/TRAINER		5.1		5.4		5.6		12.4		4.4		32.9
SOFF. SUPP FA		12.4										12.4
TOTAL		17.5	92	161.2	99	234.1	69	284.9	122	299.8	382	997.5

INSTAL_ATION -- DEPOT/FIELD TEAM
LEAD TIME -- 21 MONTHS METHOD OF IMPLEMENTATION

. LESS THAN \$ 50,000

123

FY-86 APPROPRIATION; AIRCRAFT PROCUREMENT, AIR FORCE

MODIFICATION TITLE AND NO PIVOT FITTING FAIRING, MN-133163

MODELS OF AIRCRAFT AFFECTED; F/F3-111

DESCRIPTION/JUSTIFICATION TRANSPORTED FOR THE CURRENT PIVOT FITTING FAIRING ACC CAUSED SUBSTANTIAL CORROSION. A NEW COMPOSITE ASRODINAMIC FAIRING WITH A REMOVABLE PAMEL WILL BE INSTALLED. THIS WILL ALLOW FUR INSPECTION AND APPLICATION OF CORROSION PREVENTION MATERIAL.

SCOPE OF PROGRAM

2006 OF SKOCKY		IOR	FY	1-85	FY	-86	FY	-87	OJTY	EAR	101	TAL
	Q T Y	COST	211	COST	ety	COST	QTY	COST	911	CC\$1	ATY	COST
			1	.6	36	3.4	48	2.6	304	18.1	319	24.7
BASIS FOR COST ESTIMATE;												
NONRECURRING			1	.5							1	.5
KITS DATA					36	1.8	48	2.6	304	18.!	388	22.5
SUPPORT-EQUIP				• ′		.7						.7
TOOL ING						.8						.8
TOTAL			1	. 5	36	3.4	48	2.6	304	11.1	389	24.7

2 LESS THAN \$ 50,000

FY-86 APPROPRIATION; AIRCRAFT PROCUREMENT, AIR FORCE

MODIFICATION TITLE AND NO F/FB-111 SIMULATOR UPGATE, MM-145293

MODELS OF AIRCRAFT AFFECTED; F/EF/FB-111

DESCRIPTION/JUSTIFICATION THE CJRRENT F/FB-111 SIMULATOR COMPUTER HAS BECOME LOGISTICALLY UNSUPPORTABLE AND MUST BE REPLACED. ADDITIONALLY. THE SIMULATOR REQUIRES SIGNIFICANT UPDATE TO INSURE TRAININ REALISM. THE EF-111 SIMULATOR COMPUTER WILL BE USED AS THE REPLACEMENT TO MINIMIZE "LIGHT AND ENGIVE SOFTWARE CHANGES. THE MOD WILL INCORPORATE ALL RECENT CAHANGES TO THE AIRCRAFT INCLUDING THE BOMB/NAVIGATION CHANGES. A NEW DIGITAL RADAR LAHDMASS SYSTEM WILL BE PROVIDED TO REPLACE THE CURRENT LOW RELIABILITY SYSTEM.

SCOPE OF PROGRA		RIOR	FY	1-85	FY	-36	FI	r-87	0714	SAR	TO	TAL
	QTY	C021	314	COST	QTY	C057	RTY	COST	QTY	COST	QTY	T 203
					?	16.0	6	31.0	5	34.0	13	81.0
BASIS FOR COST ESTIMATE:												
HONRECURRING					1	8.0	2	5.6	1	6.8	4	20.4
KITS					1	6.0	4	18.2		20.5	9	44.7
DATA						2.0		3.5		3.8		9.3
SUPPORT-EQUIP								3.7		2.9		6.6
TOTAL					5	16.0	6	31.0	S	34.0	13	81.0

TOTAL -- DETALLATION OF THE PROPERTY OF THE PROPERTY CASE.

. LISS THAN : 50,000

FY-86 APPROPRIATION: AIRCRAFT PROCUREMENT, AIR FORCE

MCDIFICATION TITLE AND NO EF-111 JPDATES

MODELS OF AIRCRAFT AFFECTED: EF-111

DESCRIPTION/JUSTIFICATION THIS PROGRAM PROVIDES HARDWARE AND SOF WARE UPDATES TO THE EF-191 HICH WILL MEET ANTICIPATED FUTURE THREATS.

	PRI	OR	FΥ	-85	FY	-36	\$ 1	-57	710	EAR	101	TAL
	214	COST	211	COST	RIL	COST	217	COST	QTY	COST	417	COST
	******							26.2	38	162.8	38	187.0
BASIS FOR COST												
HONRECURRING								20.0				20.0
KITS								20.0	3.8	145.8	38	145.8
DATA								3.0		5.0		8.0
SUPPORT-EQUIP								3.2		5.0		8.2
SIM/TRAINER										5.G		5.0
								56.2	38	160.8	38	187.0

METHOD OF IMPLEMENTATION INSTALLATION -- DEPOT LEAD TIME -- 24 MONTHS

. LESS THAN \$ 50,000

#Oblfication of Alecraft fy-86 Program

FY-86 APPROPRIATION; AIRCRAFT PROCUREMENT, AIR FORCE

MODIFICATION TITLE AND NO APU UPGRADE, MY-232208

MODELS OF AIRCRAFT AFFECTED: C-54

DESCRIPTION/JUSTIFICATION THE GTC-165-1 AUXILIARY POWER UNIT (APU) WAS INTRODUCED INTO AIR FORCE INVENTORY IN 1969. IT PROVIDES THE IN-FLIGHT MAIN ENGINE RESTART CAPABILITY. THIS MODIFICATION CONSISTS OF A STRONGER SURGE DUCT, AN ADJUSTABLE THERMOSTAT, A SINGLE POINT TEST PANEL, FATIGUE RESISTANT STEEL PULTBING LINES, IMPROVED FUEL DELIVERY STSTEM, STRONGER PERMANENT MAGNETIC GENERATOR GEAR AYD A SCREEN FOR FOREIGN OBJECT DAMAGE RESISTANCE. THE MODIFICATION WILL IMPROVE OVERALL MISSIOY CAPABILITY, REDUCE FIELD FAILURES AND PROVIDE IMPROVED APU EFFICIENCY AND PERFORMANCE AT A REDUCED OPERATIONAL SUPPORT COST.

SCOPE OF PROGRAM

		ICR	F	Y-85	F	7-80	F	Y-87	OUT	YEAR	TO	TAL
	GTY	1200	211	COST	QTY	COST	211	COST	914	COST	QTY	COST
BASIS FOR COST					77	3.1					77	3.1
ESTIMATE; NONRECURRING KITS DATA					1 76	.5 2.2 .2					1 76	.5 2.2 .2
SUPPORT-EQUIP						.2						.2
TOTAL					77	3.1					77	3.1

METHOD OF IMPLEMENTATION INSTAL_ATION -- ORG/INTERMEDIATE LEAD TIME -- 12 MONTHS

FY-86 APPROPRIATION; AIRCRAFT PROCUREMENT, AIR FORCE

MODIFICATION TITLE AND NO ENGINE VIBRATION MONITORING SYSTEM, 4N-264108

MODELS OF AIRCRAFT AFFECTED; C-54

DESCRIPTION/JUSTIFICATION EXISTING STEM IS A HIGH MANNER CONSUMER AND VERY UNCELIABLE. NUTEROUS INFLIGHT ENGINE SHUTDOWNS HAVE RESULTED FROM ERRONEOUS VEBRATION INDICATIONS. MAINTENANCE MANHARS USED TO MAINTAIN THIS SYSTEM FOR THE PAST YEAR WERE 26,414 FOR 2981 MAINTENANCE ACTIONS, AND REPLACEMENT OF TRANSDUCER AND CABLE ASSEMBLIES IS COSTING \$979,000 PER YR. ENGINE INTERCHANGEABILITY REPUIREMENTS FOR BOTH THE C-5A AND C-5B REQUIRES INCORPORATION OF THIS MODIFICATION ON THE C-5B PRODUCTION AIRCRAFT.

SCOPE OF PROGRAM

		PRIOR		r-85	FY	-86	F	Y-87	TTLO	/EAR	TO	TAL
	QTY	COST	211	COST	QTY	COST	QTY	cos-	QTY	COST	QTY	COST
BASIS FOR COST ESTIMATE;	******	*******			41	3.8	36	2.7			77	6.5
NONRECURRING KITS DATA					41	.1 2.9 .8	36	2.7			77	5. 6 . 8
TOTAL					41	3.5	36	2.7			77	6.5

METHOD OF IMPLEMENTATION INSTALLATION -- ORG/INTERMEDIATE LEAD TIME -- 5 MONTHS

. LESS THAN \$ 50,000

FY-86 APPROPRIATION; AIRCRAFT PROCUREMENT, AIR FORCE

MODIFICATION TITLE AND NO REPLACE DIL/FUEL FILTER SWITCHES, MN-24155B

MODELS OF FIRCRAFT AFFECTED; C-54

DESCRIPTION/JUSTIFICATION THESE SWITCHES HAVE BECOME VERY UNRELIABLE REQUIRING FREQUENT REPLACEMENT AND MANHRS TO MAINTAIN THE SYSTEM. IN THE PAST SIX MOS AFT 66-1 DATA REFLECTS 940 MAINTEN/NCE ACTIONS AND 214 FAILURES CONSUMING 2801 MAINTENANCE MANHRS. REDESIGNED SWITCHES HAVE BEEN INSTALLED IN AN AIRCRAFT AND THEY HAVE ACCUMULATED EXPROXIMATELY 500 FLIGHT HRS WITH NO FAILURES.

SCOPE OF PROGRA												
	PR:	IOR	F.	Y-35	F	r -86	* Y	-87	0.11	YEAR	70	TAL
	QTY	COST	211	COST	91 4	COST	314	COST	ety.	cos r	RTY	COST
							77	4.4			77	4.4
BASIS FOR COST							• • • • • • • • • • • • • • • • • • • •	7.1			• • •	7.7
ESTIMATE;								_				_
NONRECURRING							1	.5			1	.5
KITS							76	3.5			76	3.5
DATA								.4				- 4
TOTAL							77	4.4			77	4.4

METHOD OF IMPLEMENTATION INSTALLATION -- ORG/INTERMEDIATE LEAD TIME -- 7 MONTHS

FY-86 APPROPRIATION; AIRCRAFT PROCUREMENT, AIR FORCE

MODIFICATION TITLE AND NO REPLACE ENGINE PRESSURE RATIO SYSTEM, RM-241578

MODELS OF ALRCRAFT AFFECTES; C-54

DESCRIPTION/JUSTIFICATION THE ENGINE PRESSURE RATIO (EPR) SYSTEM IS VERY UNRELIABLE. ALTERNATE CHARTS USING "M PRIME" RPM ARE AVAILABLE IN THE PILOTS HANDBOOK. MOST COMMERCIAL AIRLINE OPERATIONS HAVE DELETED USE OF EPR IN FAVOR OF M PRIME. IN THE PAST 6 MOS AFM 66-1 DATA REFLECTS INCREASED MAINTENANCE ACTIONS AND 211 FAILURES CONSUMING 2135 MAINTENANCE MANNES.

JCOPE OF PROGRAM

JUPE UT PRUGR		IOR	F	Y-85	ŧ.	7-86	FY	-87	710	YEAP	TO	TAL
	211	COST	211	COST	QTY	COST	RTY	COST	QTY	COST	QTY	COST
BASIS FOR COST							77	6.4		*******	77	6.4
ESTIMATE; NONRECURRING KITS DATA							1 76	.6 5.3 .5			1 76	.6 5.3 .5
TOTAL							77	6.4			77	6.4

METHOD OF IM. LEMENTATION INSTALLATION -- ORG/IMTERMEDIATE LEAD TIME -- 8 MONTHS

FY-86 APPROPRIATION; AIRCRAFT PROCUREMENT, AIR FORCE

MODIFICATION TITLE AND NO ALUMINUM FLIGHT CONTROLS, MM-12201A

MODELS OF /IRCRAFT AFFECTED; T-38

DESCRIPTION/JUSTIFICATION THERE AFE TWENTY-SIX MAGNESIUM COMPONENTS IN THE FLIGHT CONTROL SYSTEM OF WHICH ANY SINGLE MODE FAILJRE COULD CAUSE A CATASTROPHIC MISHAP. MAGNESIUM ALLOYS HAVE BEEN BANNED FROM USE IN FLIGHT CONYROL SYSTEMS DJE TO THE STRESS CORROSION CRACKING THAT DEVELOPS. THIS MODIFICATION REPLACES THE MAGNESIUM COMPONENTS IN THE FLIGHT CONTROL SYSTEM WITH ALUMINUM COMPONENTS TO IMPROVE THE DJRABILITY OF THE SYSTEM AND THE SAFETY OF THE AIRCRAFT.

SCOPE OF PROGREM

	PRI	OR	FY	5	FY	-86	FY	-87	OJT	rear	TO	TAL.
	QTY	COST	211	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST
BASIS FOR COST	51	.4	119	2.0	216	4.0	216	4.2	175	4.0	770	14.6
ESTIMATE; KITS DATA	24	.4	110	2.0	216	4.0	216	4.2	175	4.0	770	14.6
TOTAL	24	.4	119	2.0	216	4.0	216	4.2	195	4.0	770	14.6

METHOD OF IMPLEMENTATION INSTAL_ATION -- DEPOT LEAD TIME -- 17 MONTHS

+ LESS THAM \$ 50,000

FY-86 APPROPRIATION; AIRCRAFT PROCUREMENT, AIR FORCE

MODIFICATION TITLE AND NO TERRALA MODEL BOARD, MN-13509B

MODELS OF AIRCRAFT AFFECTED; SIMULATORS

DESCRIPTION/JUSTIFICATION THIS MODIFICATION REPLACES THE TERRAIN MODEL BOARDS VISUAL SYSTEMS AND ASSOCIATED COMPUTER E2PT WITH A NEW STATE OF THE ART COMPUTER GENERATED IMAGERY (GCI) SYSTEM TO MEET ADVANCED TRAINING REQUIREMENTS. PROVIDES OUT-OF-THE-JINDOW TRAINING FOR VISUAL TAKE OFF AROUND AIRPORT, LOW LEVEL MANEUYERING, APPROACH AND LANDING, ALONG WITH TRANSITION FROM INSTRUMENT TO VISUAL FLIGHT OPERATIONS.

SCOPE OF PROGRAM FY-85 Y C FY-87 QTY COST TOTAL COST OUTYEAR QTY COST 9.8 12.4 14.6 17 36.8 BASIS FOR COST ESTIMATE; KITS 9.1 12.4 4 14.6 11 36.1 SUPFORT-EQUIP

9.8

TOTAL -- NOITALLATION -- DEPOT LEAD TO BE -- 23 HORNOM ES

+ LESS THAN \$ 50,600

TOTAL

12.4

14.6

36.8

PARADORY 65-Y4

FY-86 APPROPRIATION; AIRCRAFT PROCUPEMENT, AIR FORCE

MODIFICATION TITLE AND NO COMMAND SEAT SELECTION, MN-14203A

MODELS OF AIRCRAFT AFFECTED; T-35

DESCRIPTION/JUSTIFICATION SEVERAL 'LASS A MISHAP FATALITIES HAVE RESULTED FROM AIRCREM EJECTION DELAYS AND SEAT COLLISIONS FROM SIMULTANEOUS EJECTIONS. DELAYS AT LOW ALTITUDES OR IN OUT OF CONTROL SITUATIONS INCPEASES THE PROBABILITY OF FATALITIES RESULTING FROM OUT OF ENVELOPE EJECTIONS. THIS MODIFICATION REDJEES SYSTEM ACTIVATION BY COMMAND SELECTION. CHANCES OF SEAT COLLISIONS FROM SIMULTANEOUS EJECTION ARE ELIM.MATED BY MAKING THE REAR COCKPIT OCCUPANT GO FIRST AND ALLOWING THE INSTRUCTOR PILOT TO PRE-SELECT WHICH SEAT WILL INITIATE EJECTION.

SCOPE OF PROGRA	PRI	OR	F	Y-85	FY	-86	FY	-87	OU T	YEAR	TOT	AL
	QTY	COST	2 TY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST
BASIS FOR COST	1	.8			451	5.1	336	3.7			788	9.6
ESTIMATE;	7	.8									1	.8
KITS					451	4.7 .1	336	3.7			787	8.4
SIM/TRAINER						.3						. 3
TOTAL	1	.8			451	5.1	336	3.7			788	9.6

TOGED -- NOITALLATZE NOITATHEMBLIGHT TO CONTEM

* LESS THAN \$ 50,000

FY-86 APPROPRIATION; AIRCRAFT PROCUREMENT, AIR FORCE

MODIFICATION TITLE AND NO DGRSAL LGNGERON, MN-14205A

HODELS OF AIRCRAFT AFFECTED: T-35

DESCRIPTION/JUSTIFICATION IN 1983 A DAMAGE TOLERANCE TEST (DTA) WAS ACCOMPLISHED FOR NON-SEVEME USE T~38 AIRCRAFT. IN ORDER TO EXTEND THE AIRCRAFT SERVICE LIFE THE VERTICAL PORTION OF THE DORSAL LONGERON MUST BE REPLACED.

SCOPE OF PROGRAM

SCOPE OF PROBRE	PRIOR		+ Y	-85	FY	F1-86		FY-87		EAR	TOTAL	
	QTY	COST	2 T Y	TZCO	QTY	1203	2 T Y	COST	214	COST	QTY	COST
			15	5.1	115	5.9	144	7.8	348	21.0	662	39.8
BASIS FOR COST ESTIMATE;												
KITS			15	.8	115	5.9	144	7.8	34 8	71.0	622	35.5
DATA Support-Equip				.7 2.2								.7 2.2
TOOLING			(3)	1.4								1.4
TOTAL			15	5.1	115	5.9	144	7.8	348	21.0	556	79.8

METHOD OF IMPLEMENTATION INSTALLATION -- DEPOT LEAD TIME -- @ MONTHS

+ LESS THAN \$ 50,000

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FY-86 APPROPRIATION; AIRCRAFT PROCUREMENT, AIR "TRCE

MOD FICATION TITLE AND NO THE APPLIFIER RELOCATION, MN-142068

MODELS OF AIRCRAFT AFFECTED; T-33

DESCRIPTION/JUSTIFICATION PRESENT INSTALLATION LUCATIONS OF THE T-5 AMPLIFIERS EXPGSE THEM TO EXCESSIVE VIBRATION AND HEAT JHICH has caused 279 aborts and 5721 maintenance manners resulting in a logistic support cost of \$346,000 for the last twelve mos. The present mthe is 527 hr and anter modification is expected to improve to 1277 hrs. This is based on the experience with the same amplifies which is airframe mounted on the f-5. The f-7 has experienced zero aborts and only 275 unscheduled maintenance manners and \$5939 annual support costs. This amplifier on the T-38 has adversely affected its operational readiness.

SCOPE OF PROGRA	PRI	o a	FY-85		FY-86		F	Y-87	TLO	YEAR	T01	TAL.
	RTY	1200	314	COST	QTY	1200	QTY	COST	QTY	COST	QTY	COST
	2:1	3.6	302	3.1	313	5.4					764	12.1
BASIS FOR COST ESTIMATE; KITS DATA	251	3.5	5 00	3.1	313	5.4					764	12.0
TOTAL	251	3.6	5 00	3.1	313	5.4					764	12.1

METHOD OF IMPLEMENTATION INSTALLATION -- DEPOT LEAD FIME -- 11 MONTHS

. LESS THAN \$ 50,000

·· 135

FY-86 APPROPRIATION; AIRCRAFT PROCUREMENT, AIR FORCE

MODIFICATION TITLE AND NO COCKPIT ENCLOSURE, MN-142073

MODELS OF AIRCRAFT AFFECTED: T-33

1

DESCRIPTION/JUSTIFICATION FATIGJE CRACKS COMBINED WITH CORROSION HAVE BEEN FOUND IN THE COCKPIT LONGERON AT AN UNUSUALLY HIGHER RATE THIN BEFORE AND REQUIRE STRENGTHENING. THE AFFECTED AREAS AFE: F.S. 146, CAMOPY HOOK SLOTS AND F.S. 284 SPLICE. THE COCKPIT LONGERON WILL BE REDESIGNED ELIMINATE THE PRESENT HOOK SLOT METHOD OF SECURING THE CAMOPY AND INCORPORATE A NEW CAMOPY ATCHING SYSTEM. HEW IMPROVED CAMOPY TRANSPARENCIES WILL BE INSTALLED, INCLUDING NEW BIRD-PROVED WINDSHIELD OF COMPOSITE MATERIAL TO ENHANCE FLIGHT SAFETY, REDUCE WEIGHT AND BE OF IMPROVED STRENGTH. THE COCKPIT FLOORS WILL BE IMPROVED. THIS MODIFICATION IS PART OF THE PACER CLASSIC PROGRAM.

SCOPE OF PROGR		_										
	PR	10R	£,	Y-85	FY	-36	F	Y-87	7110	EAK	101	TAL
	QTY	COST	71 ₹	LOST	21 Y	COST	214	COST	QTY	COST	QTY	COST
BASIS FOR COST ESTIMAT;					5	5.7	*****		768	24	770	250.1
NCHRECURRING KITS SUPPORT-EQUI?					1	4.3 .2 .5			758	240.9	1 769	4.3 241.1 .5
JIM/TRAINER TOOLING						.7				3.5		3.5 .7
TOTAL			V		5	5.7			768	244.4	770	250.1

TOG'S -- HOLLALISTRY MOLTATHAMAJOR TO DOHTAR SKINGE 24 -- AMIT CAAL

. LESS THAN \$ 50,000

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f1-86 APPROPRIATION; AIRCRATT PROCUREMENT, AIR FORCE

MODIFICATION TITLE AND NO SKE ENHANCEMENT, MN-3033

MODELS OF AIRCRAFT AFFECTED; C-130

DESCRIPTION/JUSTIFICATION THIS MID EQUIPMENT PROVIDES IMPROVED FORMATION POSITIONING. CONTROL, AND AIRJROP IN ADVERSE MEATHER CONDITIONS AND ELIMINALES HAZARDOUS FREQUENCY LIFF FERENCE INHERENT IN PRESENT EQUIPMENT. THE PRESENT EQUIPMENT DISPLAYS FALSE TARGETS ON STATIOD REPLING SCOPES, GIVES FALSE PROXIMITY DARNINGS AND INCORRECT SYSTEP PROBLEM INDICATIONS.

SCOPE OF PROGRAM

SCOPE OF PROGRA	PRIOR				FY	FY-86		-87	110	EAR	TO	TAL
	QTY	COST	2 T Y	COST	GIY	COST	311	COST	QTY	COST	QTY	COST
	148	27.2	149	30.8	81	16.5					378	76.7
BASIS FOR COST												
ESTIMATE;	_										_	
NONRECURRING	3	2.3									3	2.3
KITS	145	21.1	149	21.4	81	13.5					375	56.0
DATA		. 2		.5		-1						. 8
SIM/TRAINER				.8								. \$
SUPPORT EQUIP		2.5	(55)	5.1	(34)	2.9						10 8
MOD OF SPARES		2.8		3.0								5,:
COTAL	148	29.2	149	30.8	81	16.5	~~~~				378	76.5

MAST NOTITED TO THE THE TRANSLAGE TO THE

. LESS THAN \$ 50,000

FY-86 APPROPRIATION; AIRCRAFT PROCUREMENT, AIR FORCE

MODIFICATION TITLE AND NO SPECIAL OPERATIONS (AC), MN-3173

MODELS OF ALRCRAFT AFFECTED; AC-133H

DESCRIPTION/JUSTIFICATION EQUIPS TEN (10) AC-130K GUNSHIPS WITH WJ-1840 WIDEBAND RECEIVING SYSTEM, DIGITAL MESSAGE DEVICE GROUP (DATA BURST), IMPROVED INERTIAL MAVIGATION SYSTEM AND A FIRE CONTROL COMPUTER (FCC). ALL KITS WILL BE INSTALLED SIMULTANEOUSLY. THIS EFFORT IS IN RESPONSE TO OSD DIRECTION TO REVITALIZE THE SPECIAL OPERATIONS FORCES.

SCOPE OF PROGRAM

	PRIOR		FY-85		FY-86		FY-27		UJTYEAR		TOTAL	
	QTY	1200	714	COST	977	COST	917	COST	CTY	COST	QTY	COST
	1	35.5	7	13.4	5	3.4					10	39.0
BASIS FOR COST ESTIMATE;												
HONRECURRING	1	21.7									1	21.7
KITS			7	9.5	5	2.9					9	12.4
DATA		.5		3.0								3.5
SUPPORT-EQUIP				.7		. 5						1,2
TOOLING				- ?								.2
TOTAL	1	23.2	7	13.4	5	3.4					10	39.0

TOPOT -- DETAIL NOITATHMENT -- DEPOT LEAD THE -- DEPOT LEAD THE -- SE

. LESS THEN \$ 50,000

FY-86 APPROPRIATION; AIRCRAFT PROCUREMENT, AIR FORCE

MODIFICATION TITLE AND NO SPECIAL OPERATIONS (MC), MN-3184

MODELS OF AIRCRAFT AFFECTED; MC-133E

DESCRIPTION/JUSTIFICATION EQUIPS FOURTEEN (14) MC-130E COMBAT TALON AIRCRAFT WITH PASSIVE INFRARED WARNING RECEIVERS, DIGITAL MESSAGE DEVICE GROUP (DATA BURST), IMPROVED INERTIAL NAVIGATION SYSTEM, UPDATED ELECTRONIC COMBAT ERPT AND THE WJ-1840 WIDEBAND RECEIVER. THIS EFFORT RESPONDS TO TAC/CC REQUIREMENTS AS BRIEFED IN JUN 80 TO CSAF AND SAF, AND TO OSD DIRECTION TO MODERNIZE THE SPECIAL OPERATIONS FORCES.

SCOPE OF PROGRA		LOR	EV	-85	64	-86	ε,	r-87	0.11	FAR	TO	TAL
	QTY	COST	211	COST	QTY.	COST	atr	COST	QTY	COST	QTY	COST
	1	13,5	2	20.7	2	16.0	4	25.7	5	39.5	14	112.4
BASIS FOR COST ESTIMATE;												
NONRECURRING	1	7.5									1	9.5
KITS DATA		1.0	5	11.6	2	12.2	4	25.7	5	31.1	13	83.6 2.4
SUPPORT-EQUIP		• •		7.7		3.8				5.4		16.9
TOTAL	1	10.5	2	20.7	5	16.0	4	25.7	5	39.5	14	112.4

METHOD OF IMPLEMENTATION INSTALLATION - DEPOT LEAD TIME -- 18 MONTHS

. LESS THAN \$ 50,000

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FY-86 APPROPRIATION; AIRCRAFT PROCUREMENT, AIR FORCE

MCDIFICATION TITLE AND NO SELF-CONTAINED NAV SYSTEM (SCNS), MM-3190

MCDELS OF AIRCRAFT AFFECTED; C-150

DUSCRIPTION/JUSTIFICATION EQUIPS C-130 AIRCRAFT JITH A SELF-CONTAINED HAVIGATION SYSTEM (SCMS).

THE SCMS WILL EMABLE C-130S TO OPERATE WITHOUT EXTERNAL NAVIGATION AIDS, SINCE IN BATTLE ZOMES
MAVIGATION AIDS WILL LIKELY BE SHUT DOWN OR JAMMED. THE SCMS WILL IMPROVE THE C-130 MISSION
SUCCESS LIKLIHOOD, PARTICULARLY ON LOW LEVEL MISSIONS. ESCAUSE OF VARIOUS TYPES OF C-130S
INVOLVED, & AIRCRAFT WILL RECEIVE TRIAL INSTALLATION CITS. 148 SCMS WILL BE PROCURED AS A
SINGLE ENTITY AND WILL INCLUDE: INERTIAL NAVIGATION UNIT (INU), DOPPLER VELOCITY SENSOR (DYS),
COCKPIT DISPLAY UNIT (CDU), AND AN AIR DATA COMPUTER (ADC).

SCOPE OF PROGRAM

	PRI	0 4	FY	-85	FY	-86	FY	1-87	0.111	EAR	TO	TAL
	Q TY	Teco	314	COST	2 TY	COST	3 T Y	COST	QTY	COST	QTY	COST
	1	4.7	29	13.0	105	39.2	114	62.3	251	123.0	500	242.2
SASIS FOR COST												
1) MR ECURRING	1	3.5	.1	1.5	6	7.4					8	12.5
KITS Data			28	10.8	99	29.2	114	51.0	251	123.0	492	214.0
TRAINER		1.1		.3		.7						1.4
SUPPORT FOULP				.2		.7						.,
BACH TEST SET					(44)	1.2						1.2
SIMULATORS							(22)	11.3				11.3
TOTAL	1	6.7	25	13.0	105	39.2	114	62.3	251	123.9	500	242.2

- LESS THAN \$ 50,000

FY-86 APPROPRIATION; AIRCRAFT PRODUREMENT, AIR FORCE

MODIFICATION TITLE AND NO HC-130H TANKER CONVERSION, MN-3200

MODELS OF MIRCRAFT AFFECTED; HC-133H

DESCRIPTION/JUSTIFICATION ENHANCES TANKER CAPABILITY FOR INFLIGHT REFUELING OF RESCUE AND SOF HEAVY LIFT HELICOPTERS FOR JARTINF AND CONTINGENCY TASKING THUS IMPROVING HC+130 UTILITY AND FLEXIBILITY FOR THE COMBAT RESCUE MISSION. THIS MODIFICATION TO BE DONE CONCURRENTLY WITH OUTER WING MOD.

SCOPE OF PROGRAM

SCORE OF PROGRA		IOR	F	85	F	r -86	F.	Y-57	110	YEAR	101	TAL
	977	COST	211	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST
	2	2.0	6	4.5	6	5.3		5.6			20	17.4
BASIS FOR COST ESTIMATE;	-		·		·							
KONRECURRING	1	.8									1	. 5
KITS Tooling	1	. 8	6	4.5	6	5.3	6	5.6			19	16.2
TOTAL	5	5.0	6	4.5	6	5.3	6	5.6			20	17.4

METHOD OF IMPLEMENTATION INSTALLATION -- DEPOT LEAD TIME -- 36 HONTHS

. LCSS THAN \$ 50,000

FY-86 APPROPRIATION; AIRCRAFT PROCUREMENT, AIR FORCE

MODIFICATION TITLE AND NO AERIAL SPRAY CAPABILITY, MN-3210

MODELS OF AIRCRAFT AFFECTED: C-939

DESCRIPTION/JUSTIFICATION RODIFIES SIX USAFR 4-130 AIRCRAFT (PE 54343F) TO REPLACE THE UC-123K AERIAL SPRAY CAPABILITY. THE UC-123K WILL BE PHASED OUT OF THE INVENTORY BY END OF FY87.

SCOPE OF PROGR		108	F,	r-85	FY	-86	F	1-87	OJTY	EAR	10	TAL
	QTY	COST	211	COST	QTY	CUST	QTY	COST	QTY	COST	QTY	COST
BASIS FOR COS.					6	4.6					6	4.6
ESTIMATE; KITS Support-Equip					6	3.9					6	3.9
TOTAL	*		•••••		6	4.6					6	4.6

METHOD OF IMPLEMENTATION: INSTALLATION -- OPG/INTERMEDIATE LEAD TIME -- 6 MONTHS

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FY-80 APPROPRIATION; AIRCRAFT PROCUREMENT, AIR FORCE

MODIFICATION TITLE AND NO C-1304 CONVERSION

MODELS OF AIRCRAFT AFFEC ... C-1304

DESCRIPTION/JUSTIFICATIO: CONVERTS THE C-130H CREDIBLE SPORT AIRCRAFT TO THE COMBAT TALON II 4C-133H CONFIGURATION.

SCOPE OF PROGRA		I O R	F	Y-85	FY	-86	F	Y-87	1 LO	YEAR	TO	TAL
	971	cost	21 Y	COST	QTY	COST	914	COST	QTY	COST	STY	COST
BASIS FOR COST			•••••		;	13.4					1	13.4
ESTIMATE; NONRECURRING						1.0						1.0
KITS Data					1	12.2					1	12.2
TOTAL					1	13.4					1	13.4

METHOD OF IMPLEMENTATION OF INTERNETIAL TO DONT BE SHINOM SE -- SMIT CAS.

FY-86 APPROPRIATION; AIRCRAFT PROCUREMENT, AIR FORCE

MODIFICATION TITLE AND NO IFR/AVIONICS UPGRADE (CS/CL)

MODELS OF AIRCRAFT AFFECTED? EC-100E

DESCRIPTION/JUSTIFICATION THIS MODIF. CATION CONSISTS OF ADDING IN-FLIGHT MEFLELING CAPABILITY, CHAFF/FLARE DISPENSERS FOR IMPROVEL SELF-PROTECTION AND UPGRADES THE AVIONICS SLIFE. THIS WILL MAKE THE AIRCFAFT MORE RESPONSIVE, MPROVE REACTION TIME, CH-STATION ENDURANCE AND PRUPAGATION ALTITUDE.

SCOPE OF PROGRAM

00012 01 1 1001		IOR	F:	-85	FY	-86	۶.	Y-87	25.71	i en	TO	TAL
	A T Y	COST	atr	COST	QTY	COST	QTY	COST	017	COST	QTY	COST
					3	5.9	3	6.0	ž	4.2	8	16.1
BASIS FOR COST ESTIMATE;												
HONRECURRING					1	1.9					1	1.9
KITS DATA SUPPORT-EQUIP					2	3.8 .1 .1	3	6.0	5	€.7	7	14.0 .1 .1
TOTAL					3	5.9	3	6.0	2	4.2	8	16.1

TOGAD -- MOITALJATZEL MOITATMAMAJUMI 10 DOHTAM

FY-86 APPROPRIATION; AIRCRAFT PROCUREMENT, AIR FORCE

MODIFICATION TITLE AND NO MAC SATCOM ANTENNAS

MODELS OF AIRCRAFT AFFECTED: C-130

DESCRIPTION/JUSTIFICATION PROVIDES PERMANENTLY MOUNTED UHF SAICOM ANTENNAS WHICH WIL. OPERATE VITH A TRANSPORTABLE SATCOM TERMINAL SUITABLE FOR EITHER GROUND OR AIRBORNE OPERATION. THIS EFFORT IS AN INTEGRAL PART OF THE MAC COMMAND AND CONTRUL UPGRADE PROGRAM.

SCOPE OF PROSR		IOR	F.	Y-8 5	FY	-86	FY	r-87	77.0	EAR	Tel	TAL
	QTI	COST	211	COST	QTY	COST	QTY	COST	QTY	COST	UTY	COST
BASIS FOR COST		~			252	4.4	190	3.1	250	3.8	662	11.3
ESTIMATE: AITS DATA					252	3.9	190	3.1	220	3.8	662	10.8
TOTAL					525	4.4	190	3.1	550	3.8	662	11.3

METHOD OF IMPLEMENTATION INSTAL_ATION -- ORG/INTFRMSDIATE LEAD TIME -- 12 MONTHS

. LESS THAN \$ 50,000

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FY-86 APPROPRIATION; /IRCRAFT PROCUREMENT, AIP FORCE

MODIFICATION TITLE AND MO FORWARD LOOKING INFRARED (FLIR), MN-3189

MODELS OF AIRCRAFT AFFECTED: MC-133E

DESCRIPTION/JUSTIFICATION THIS EFFORT COMPLETES PROCUREMENT OF THE AAR-10 FLIR FOR THE MC-130E COMBAT TALON FLEET. ALL 14 MC-130Es ARE GP A EQUIPPED FOR THE FAR-10 FLIR AND KINE ALREADY HAVE FLIR CP 9 INSTALLED. THE INSTALLATION OF THESE FIVE FLIR'S COMPLETES THE PROGRAM.

SCOPE OF PROGRAM

SEO'E OF FREEH		109	FY	r-85	: .		F	Y-87	110	YEAR	10	TAL
	3 T Y	COST	31 A	COST	914	COST	31A	COST	QTf	COST	QTY	COST
							5	3.0			5	3.0
BASIS FOR COST												
ESTIMATE; KITS							5	3.0			5	3.0
TOTAL							5	3.0			5	3.0

KETHOD OF IMPLEMENTATION 145TAL_ATION -- ORG/INTERMEDIATS LFAD TIME -- 18 MONTHS

FY-86 APPROPRIATION; AIRCRAFT PROCUREMENT, AIR FORCE

MODIFICATION TITLE AND NO ARRS SPECIAL OPS LOW LEVEL

MODELS OF AIRCRAFT AFFECTED; HC-130

DESCRIP ION/JUSTIFICATION PROVIDES ELECTRONIC COUNTERMEASURES EQUIPMENT, SATELLIZE COMMUNICATIONS, DUAL NAVIGATOR STATION AND MIGHT VISION GOGGLE (NVG) COMPATIBLE LIGHTING FOR 25 HC-1305 WHICH WILL ENHANCE COMBAT RESCUE AND SPECIAL OPERATIONS CAPABILITIES.

SCOPE OF PROGRAM

Ŷ

500, 2 01 1 100	PR:	OR	F	r-85	£1	r-86	FY	r-87	001	YEAR	TO	TAL
	QTY	:057	311	COST	QTY	COST	QTY	COST	QTY	COST	QTY	C(ST
							5	5.6	20	21.9	25	27.5
BASIS FOR COST												
ESTIMATE; NAMECURRING								.1			4	•
KITS							4	4.6	3.0	21.9	24	26.5
DATA								.1			-	
SUPPORT-EQUIP								.3			_	.8
TOTAL							5	5.6	50	21.9	25	27.5

METHOD OF IMPLEMENTATION INSTALLATION -- DEPOT/FIELD TEAM LEAD TIME -- 18 MOITES

TY-86 APPROPRIATION; AIRCRAFT PROCUREMENT, AIR FORCE

MODIFICATION TITLE AND NO AWARS VISUAL SYSTEM

MODELS OF AIPCRAFT AFFECTED; C-130E: SI ULATOR

DESCRIPTION/LUSTIFICATION PROVIDES ONE VISUAL SYSTEM FOR C-133E WEATHER AERIAL DELIVERY SYSTEMS TRAINING ON EMERGENCY PROCEDURES AND UNIQUE MANEUVERS, PLUS REALISTIC WORLD-WIDE MISSION REHEARSALS.

SCOPE OF PROGRAM

Store of Production	PRI	OR	F	1-85	FY	-86	F.	r-87	110	YEAR	701	TAL
	QTY	COST	2 T Y	COST	911	COST	QTY	COST	QTY	COST	2 T Y	COST
								7.3			1	7.3
BASIS FOR CUST							•	,			•	. • 3
ESTIMATE;												
NONRECURFING							1	7.3			1	7.3
TOTAL							1	7.3	******		1	7.3

METHOD OF IMPLEMENTATION INSTALLATION -- SEPOT LEFD TIME -- 18 MONTHS

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F"-86 APPROPRIATION; AIRCRAFT PROSUREMENT, AIF FORCE

MODIFICATION TITLE AND NO NEW ABOOC CAPSULES

MODELS OF AIRCRAFT AFFECTED; EC-13DE

DESCRIPTION/JUSTIFICATION PROVIDES FOR SEVEN NEW ABOCC CAPSULES WITH REQUIRED SPACE AND SPACEAND SPACE

SCOPE OF PROGRAM

SCOPE OF PROGR		IOR	£ .	Y-85	F	Y-86	f Y	-87	OJTY	EAR	101	TAL
	QTY	COST	2 T Y	CCST	STY	COST	911	1202	QTY	COST	61.4	1200
							1	12.5	6	31,5	7	44.0
BASIS FOR COST							·		•			
ESTIMATE;												
NONR ECURR ! NG								1.7				1.7
KITS							1	6.5	6	31.5	7	38.0
DATA								1.5				1.5
SUPPORT-EQUIP								2.8				2,€
YOTAL							1	12.5	ن	31.3	7	44.0

METHOD OF IMPLEMENTATION INSTAL_ATION -- ORG/INTERMEDIATE
'EAD TIME -- 12 MONTHS

FY-86 APPROPRIATION; AIRCRAFT PROCUREMENT, AIR FORCE

MODIFICATION TITLE AND NO TRACALS/WEATHER (MLS)

MODELS OF AIRCRAFT AFFECTED; C 130

DESCRIPTION/JUSTIFICATION THIS MODIFICATION INSTALLS COMMERCIAL MICRO-WAVE LANDING SYSTEM (MLS) AVIONICS ON MAC C-130s.

SCOPE OF PROGRAM

500, C 51, 7, 100 K		IOR	F 1	Y-85	F,	Y-86	1	1-87	OUT	YEAR	T	OTAL
	917	COST	311	COST	ary	COST	RTY	COST	QTY	COST	G TY	COST
01515 500 5057							80	4.3	296	15.4	376	23.7
BASIS FOR COST ESTIMATE; KITS							80	4.3	296	19.4	376	23.7
TOTAL							80	4.3	296	19.4	376	23.7

TAILDANASTAL OF TAILDANASTAL AND TAINDMASTAL OF TO THE AND THE OF THE AND THE

FY-86 APPROPRIATION; AIRCRAFT PROCUREMENT, AIR FORCE

MODIFICATION TITLE AND NO FLIGHT DATA RECORDER, MH-10603A

MODELS OF AIRCRAFT AFFEC.ED; C-130

DESCRIPTION/JUSTIFICATION FOUR C-130 MISHAPS DURING 1978, EACH INVOLVING LOSS OF AIRCRAFT AND HUMAN LIFE, EMPHASIZE THE NEED FOR A RECORDER SYSTEM. WHEN ALL CREW MEMBERS ARE FATALLY INJURED AND THERE IS NO RECORDER EVIDENCE AVAILABLE, THE ACCIDENT INVESTIGATION BOARD MEMBERS USUALLY MUST SURMISE THEIR CONCLUSIONS AS TO THE POSSIBLE CAUSES OF THE ACCIDENT. FOLLOW-ON ACTION OFTEN HAS LEAD TO EXPENSIVE FORCE RETROFITS OR FORCE DOWNTIMES WHICH MAY OR MAY NOT HAVE BEEN NEEDED. A RECORDER SYSTEM SHOULD PRECLUDE ACCIDENT BOARD CONCLUSIONS BASED ON INSUFFICIENT DATA AND THUS ELIMINATE UNNECESSARY RETROFITS AND COSTLY DOWNTIME AS A RESULT.

SCOPE OF PPOGRAM

SCOPE OF PROGRA	PRI	OR	f١	r-85	٤٠	Y -86	FY	1-87	7 00	YEAR	10	TAL
	QTY	T203	314	CCST	QTY	COST	917	0051	QTY	C02~	QTY	COST
	424	17.9	240	8.7	62	3.0		*****			726	29.6
BASIS FOR COST ESTIMATE;												
NOMRECURRING	7	.3									7	.3
TITS DATA	417	13.6	240	5.7	65	2.6					719	24.9
TRAIMER/SIMUL SUPPORT EQUIP		1.9			(22)	.4						1.9
TOTA:	424	17.9	240	8.7	62	3.0			*****		726	29.6

METHOD OF IMPLEMENTATION INSTAL_ATION -- DEPOT LEAD TIME -- 8 MONTHS

FY-86 APPROPRIACION; AIRCRAFT PROCUREMENT, AIR FORCE

MODIFICATION TITLE AND NO FUEL CE L FOAM, MN-10618A

MODELS OF AIRCRAFT AFFECTED: C-150

DESCRIPTION/JUSTIFICATION INSTALLS MIL-B-830549(BLUE) RETICULATED POLYESTER FOAM IN ALL FUEL CELLS/ FANKS. "EQUIRED TO PROVIDE EXPLOSION/FIRE SUPPRESSION FROM CAUSES SUCH AS: STRAY VOLTAGE, LIGHTNING STRIKES, MOSTILE ACTION FIRES, ETC. TWO C-130 LOSSES HAVE OCCURRED BECAUSE OF INTANK EXPLOSIONS WHICH MIGH? HAVE BEEN PREVENTED BY THE NEW FOAM.

SCOPE OF PROGRA											_	
	PRI	08	F'	Y-85	FY	r-86	FΥ	-87	TLO	YEAR	T	DTAL
	RIA	COST	311	1202	QTY	COST	QTY	COST	Q "Y	COST	QTY	COST
	500	31.3	88	4.6	92	4.8					680	\$9.7
BASIS FOR COST ESTIMATE;												
NONR ECURRING	2	. 3									2	.3
KITS Data	496	31.0	88	4.6	92	4.8					678	40.4
TOTAL	500	31.	88	4.6	92	4.8					580	40.7

PRATT CONTRACT -- NOITALLATION -- DEPOT/FIELD TEAM

CHIMCE SHIMCE -- SHIT CASH

. LESS THAN \$ 50,000

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FY-36 APPROPRIATION; AIRCRAFT PROCUREMENT, AIR FORCE

MODIFICATION TITLE AND NO KC-135R MODERNIZATION, MN-3009

MODELS OF ALPCRAFT AFFECTED: KC-135 A/E/Q

DESCRIPTION/JUSTIFICATION THE KC-135R MODERNIZATION PROSRAM HELMS TO ALLEVIATE THE AIR FORCE AIR REFUELING SHURTHALL BY MAXING SYSTEM CHAMGES THAT INCREASE THE FUEL GEFLOAD POTENTIAL TO 1.5 TIMES THAT OF THE PRESENT TANKERS, THE KC-135A/Q, AND 1.3 TIMES THAT OF THE KC-135E. THE MORE POWERFUL FEFFICIENT ?-108 ENGINE (.)MMFRCIAL: CFM56-2) ALLOWS TAKEOFF WITH 14000 POUNDS MORE FUEL IN LESS DISTANCE AND REDUCES TANKER FUEL CONSUMPTION BY 27 PERCENT. THE QUIFTER, CLEANFR F-108 ENGINES MEET OR EXCEED ALL NOISE AND POLLUTION STANDARDS. OVER 25 OTHER SYSTEMS/BUBSYSTEMS UPDATES INCLUDING THE LANDING GEAR WILL EXTEND THE LIFE OF THE KC-135R INTO THE 21ST CENTURY.

SCOPE OF PANGRAM

Score or range.	PRI	OR	FY	-85	FY	-86	FY	~ 8 *	CJT7	EAR	TO1	AL
	QTY	TZG3	217	COST	314	COST	QTY	6021	QTY	COST	217	COST
	59	1184.7	43	705.3	43	697.7	20	971.4	194	4173.2	389	7732.3
BASIS FOR COST							_	-			_	
ESTIMATE;												
NONRECURRING		33.6		2.0		1.5						37.1
KI75	59	497.8	43	269.3	43	260.4	50	302.5	194	1205.6	389	2537.6
DATA		37.4		15.1		5.7		6.5		23.5		88.2
SUPPORT-EGUIP		42.0		25.6		25.5		28.0		92.8		213.9
STM/TRAINER		9.3										9.3
TOOLING		92.5										92.6
ENGINE		470.0	(150)	393.3	(172)	434.5	(500)	034.4		2851.3		4753.6
ADVANCE PROC		22.2										22.2
ADV PROC CR		. 8										. 8
TOTAL	59	1184.7	43	795.3	43	697.7	30	971.4	194	4173.2	389	7732.3

RETHOD OF IMPLEMENTATION INSTALLATION -- CONTRACTOR FACILITY LEAD TIME -- 30 MONTHS

FY-86 APPROPRIATION; AIRCLAFT PROCUREMENT, AIR FORCE

MODIFICATION TITLE AND NO TUBULAR HEAT EXCHANGER, MM-630609

MODELS OF AIRCRAFT AFFECTED: C-1304

DESCRIPTION/JUSTIFICATION, HEAT EXCHANGERS INCLUDED IN THE FY74 C-133H PRODUCTION AIRCRAFT ARE NO LONGER IN PRODUCTION. REPLENISHMENT SPARES ARE NO LONGER AVAILABLE AND THE SPARES P'FELINE WILL ONLY LAST, THROUGH FY85. THIS EFFORT INCLUDES MODIFICATION OF THE REFRIGERATION UNIT.

SCOPE OF PROGRAM

SCOLE OF PROGR		IOR	F.	Y-85	*	Y-56	F	1-87	710	YEAR	TO	FAL
	QTY	COST	2 f Y	COST	QTY	COST	3 TY	COST	QTY	COST	614	COST
			2	2	24	2.8	24	2.9		4.3	83	10.2
BASIS FOR COST	Ī		•	•.		2,70			,,			
NO NR E CURRING			1	.1							:	.1
KIIS			1	.1	24	2.8	24	2.9	33	4.3	87	10.1
TOTAL			5	.2	24	2.8	24	2.0	33	4.3	83	10.2

TOPOS -- DEPOS ACTIVATION OF TAPAS AND TO DEPOSE TO THE CAST OF TAPAS ACTIVATED TO THE TAPA

FY-86 APPROFRIATION; AIRCRAFT PROCUREMENT, AIR FORCE

MODIFICATION TITLE AND NO DUTER WING, 4N-19610B

MGDELS OF A REMAFT AFFECTED. C/HC-130B/E/H/P/N

DESCRIPTION, JUSTIFICATION STRUCTURAL INTEGRITY DATA INDICATES REQUIREMENT FOR OUTER WING MODIFICATION DIRECAUSE OF FATIGUE AND CORROSION PROBLEMS AT SEVERAL LOCATIONS ON THE WING. FAILURES HAVE OCCURRED IN THE OUTER WING LOWER FROM BEAN CAPS, WITH RELATED CHACKS FOUND IN SPAR WEBS AND LOWER FORWARD JING SKIN PANELS. STRESS CORROSION C. CKING HAZ BEEN IDENTIFIED IN THE WING DRY BAYS. INTERIA SULUTIONS OF REPAIRING/REPLACING FAILED COMPONENTS HAVE BEEN IMPLEMENTED UNTIL THE WING BOXES CAN BE REPLACED, INCLUDING GROSS WEIGHT LIMITS FOR CERTAIN MISSIONS.

SCOPE OF PRIGRA	NA PRI	0.0		r-85		-86		Y-87	0.17	YEAR	T.O.	TAL
	QTY	COST	ลาร์	COST	QTY	COST	Q T Y	COST	914	COST	QTY .	COST
	276	202.2	1 32	102.2	84	73.6					492	378.0
T 2CC ROP ZIZAE; CATARITZE NORECURRING		7.2										7.2
DATA TOOLING	276	183.0 .9 11.1	132	102.2	84	73.6					492	358.8 .9 11.1
TOTAL	276	203.5	1 32	102.2	84	73.6					492	378.0

METHOD OF IMPLEMENTATION INSTALLATION -- DEPOT LEAD TIME -- 3C MONTHS

FY-86 APPROPRIATION; AIRCRAFT PRODUREMENT, AIR FORCE

MODIFICATION TIFLE AND NO VAYSTAR SPS RETROFIT, MN-3150

MODELS OF AIRCRAST AFFECTED; RC-135

DESCRIPTION/JUSTIFICATION THE NAVSTAR GLOBAL POSITIONING SYSTEM (GPS) IS A SPACE-BASED RADIO NAVIGATION SYSTEM THAT WILL PROVIDE SUITABLY EQUIPPED SOLVE VEHICLES WITH HIGHLY ACCURATE, JAMBESISTANT, THREE-DIMENSIONAL POSITION, VELOCITY. AND TIME DATA, WORLDWIDE IN ALL WEATHER TO IMPROVE PISSION EFFECTIVENESS. THIS MODIFICATION INSTALLS GPS USER EQUIPMENT IN RC-135 AIRCRAFT.

SCOPE OF PROSE	4 14											
	FR	IOR	F.	Y-85	FY	-56	F١	7-87	110	YEAR	TOT	7 AL
	QTY	COST	3 T Y	COST	SIA	COST	2 T Y	COST	QTY	COST	RTY	2003
					11	5.2	10	2.8			21	8.0
BASIS FOR COST					• •	,,,					.,	0.0
ESTIMATE; Nonrecurring					1	1.0					•	1.0
KI 😘					10	2.1	10	2.0			2.2	4.1
DATA Support-Equip						1.2						1.2
SIM/TRAINEP						• •		.8				
TOTAL					11	5.2	13	2.8			21	8.0

. LESS THAN \$ 50,000

4

FY-86 APPROPRIATIONS AIRCRAFT PROCUREMENTS AIR FORCE

MODIFICATION TITLE AND NO STANDARD WHE AM/FM RADIC, MY-3042

MODELS OF AIRCRAFT AFFECTED; C/KC/EC/PC/WC-135

DESCRIPTION/JUSTIFICATION SELECTED AIRCRAFT ARE AFFECTED BY THE FAA AND THE AIR HAITONAL CIVIL AVIATION ORGANIZATION (ICAO) IMPLEMENTATION ON 1 JAHUARY 1977 OF 25KH2 CHANNEL COMMUNICATION WHERE VHF/AM IS THE PRIMARY FRED SENCY NAME FOR CIVILIAN/MILITARY AIR TRAFFIC CONTROL. THIS MODIFICATION WILL PLOVIDE FOR IMPROVED RELIABILITY AND MAINTAINABILITY AND MEETS FAA/ICHO REQUIREMENTS. C-135 AIRLRAFT ARE OPERATING UNDER WAIVERS AT CERTAIN LOCATIONS AT PRESENT.

SCOPE OF PROGRA												
	PRI	OR	F 1	-85	<i>5</i> Y	-86	* T	-87	6718	EAK	10:	* N.L.
	QTY	COST	314	cosi	aty	COST	RTY	COST	QTY	COST	OTY	COST
•	1	1.9	125	2.3	156	8.5	1.2	2.5	221	4.0	655	13.8
BASIS FOR COST ESTIMATE;												
NOMRECURRING	1	1.0									5	1.3
KITS			125	2.3	156	2.5	152	2.8	221	4.0	654	11.9
SJPPORT EQUIP	_	. 9										.9
TOTAL	1	1.9	125	2.3	156	۷.8	152	2.8	221	4.0	655	13.8

METHOD OF IMPLEMENTATION INSTALLATION -- DEPOT LEAD TIME -- 12 MONTHS

FY-86 APPROPRIATION; AIRCRAFT PROJUREMENT, AIR FORCE

MODIFICATION TITLE AND NO YUCLEAR HARDENING/UHF REPLACEMENT, MY-3156

MODELS OF AIRCRAFT AFFECTED; EC-135A/C/G/H/L/J/P

DESCRIPTION/JUSTIFICATION REPLACES COMPONENTS (UHF RADIOS, MULTIPLEXER, SWITCHBOARD, INTERPHONE) WITH MINIATURIZED STATE OF THE ART, EMP HARDENED COMPONENTS ON EC-135 AIRCRAFT. TO ACCOMPONENTS SUPPORTABILITY PROBLEMS WITH THE ARC-89 RADIO, AM EARLY SWAPDJT ON EC-135L AIRCRAFT WILL BE ACCOMPLISHED. FY83 FUNDS THE ARC-89 SWAPDJT ON THE EC-135L (5 ACFT), WITH INSTALLATIONS IN

SCOPE OF PROGRAM

	PRI	0 9	FY	r-85	FY	-86	FY	-87	7710	EAR	101	TAL
	QTY	COST	211	COST	Q1 Y	COST	QTY	COST	QTY	COST	QTY	COST
	3	59.4	8	44.8	12	46.5	11	46.2	5	22.5	39	219.2
BASIS FOR COST ESTIMATE;												
NONRECURRING	2	23.2	4	23.4	1	5.2					7	48.8
KITS	1	12.6	4	15.6	11	41.3	11	43.4	5	22.1	32	135.0
DATA		15.1		5.8						. 2		21.1
SUPPORT-EQUIP								0.8				2.8
SUPPORT EQUIP		11.5										11.5
TOTAL	3	59.4	3	44.8	12	46.5	11	46.2	5	22.3	39	219.2

METHOD OF INPLEMENTATION INSTALLATION -- DEPOT LEAD TIME -- 20 MONTHS

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FY-86 APPROPRIATION; AIRCRAFT PROCUREMENT, AIR FORCE

MODIFICATION TITLE AND NO. MILSTAR AFSATCOM TERM UPGRADE/DUAL MODEM

MODELS OF AIRCRAFT AFFECTED: RC-135/EC-135A/G

DESCRIPTION/JUSTIFICATION MODIFICATION PROVIDES PRINTED CIRCUIT BOARD REPLACEMENTS FOR THE AFSATCOM TERMINAL QUAL MODEM. MODIFICATION REQUIRED TO TRANSITION THESE TERMINALS TO MILSTAR, RESOLVE A POTENTIAL FREQUENCY INTERFERENCE PROBLEM, CORRECT FOTHE DEFICIENCIES AND TO PROVIDE PROPER FREQUENCY-MOPPING ALGORITHM FOR COMPATIBILITY WITH CHANGES BEING MADE TO THE AFSATCOM SATELLITE TRANSPONDER ON THE SATELLITE DATA SYSTEMS SPACECRAFT.

SCOPE OF PRUGAA

	OR	FY	r-85	Fì	-8 v	F	Y-87	TLO	YEAR	701	TAL
ð. A	TRCD	31 A	COST	QTY	COST	911	COST	QTY	COST	QTY	COST
	•••••			27	4.2					27	4.2
				3.2	. 1					2.7	.1
				21	•					21	2.2
					_						.5
					1.2						1.2
				27	4.2						4.2
	P+1	PHIOR	PHIOR FY	PHIOR FY-85	Pwion fY-85 ft a'Y cost atY cost atY 27	P*IOR FY-85 F1-86 Q'Y COST 11Y COST QTY COST 27 4.2 27 2.2 .2 .5 1.2	PMIOR FY-85 F1-86 F 9'Y COST 21Y COST 2TY COST 2TY 27 4.2 27 2.2 .2 .5 1.2	P # I OR FY-85 F1-86 FY-87 Q'Y COST 21Y COST QTY COST QTY COST 27 4.2 27 2.2 .2 .5 1.2	PWIOR FY-85 F1-80 FY-87 OJT Q'Y COST 2TY COST QTY 27 4.2 27 2.2 .2 .5 1.2	PWIOR FY-85 F1-80 FY-87 OJIYEAR 9'Y COST 9TY COST 9TY COST 9TY COST 27 4.2 2/ 2.2 .2 .5 1.2	PHIOR FY-85 F1-80 FY-87 DJIYEAR TOI 9'Y COST 9TY COST 9TY COST 9TY COST 9TY 27 4.2 27 27 2.2 27 .1 27 .2 .2 .2 .5 .1.2

METHOD OF IMPLEMENTATION INSTALLATION -- ORG/INTERMEDIATE LEAD TIME -- 11 MONTHS

FY-86 APPROPRIATION; AIRCRAFT PROCUREMENT, AIR FORCE

MODIFICATION TITLE AND NO PEACEKEEPER/MENUTEMAN COMMON ALCO

MODELS OF AIRCRAFT AFFECTED; EC-135A/C/G

DESCRIPTION/JUSTIFICATION PROVIDES AIRBORNE LAUNCH CONTROL CENTER CAPABILITY FOR PEACEKEEPER AND MINUTEMAN IN 22 EC-135 4/C/G AIRCRAFT. IOC TO BE MET WITH 3 ROTRE AIRCRAFT IN FY 86.

SCOPE OF PROGRA		IOR	FY	-85	FY	-86	F	1-87	OJTY	EAR	TO	r a L
	QTY	COST	2 T Y	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST
			1	6.8	7	2.3	4	14.9	10	42.2	22	96.2
BASIS FOR COST ESTIMATE;				•••								
NONRECURRING KITS DATA			1	6.8	7	26.1 3.9	•	14.9	10	38.3	21	6.8 79.3 4.7
SUPPORT-EQUIP						2.3				3,1		5.4
TOTAL			1	6.8	7	32.3	4	14.9	10	42.2	2.5	96.2

MESHOO OF IMPLEMENTATION INSTALLATION -- CONTRACTOR FACILITY LEAD IT ME -- 18 MONTHS

14-86 APPROPRIATION, AIRCRAFT PROCUREMENT, AIR FORCE

MODIFICATION TITLE AND NO WWARNER INTERIM MMPH (WIM)

MODELS OF AIRCRAFT SEFENTED; EC-135

DESCRIPTION/JUSTIFICATION PROCURES AND INSTALLS MEECH MESSAGE PROCESSING MODE (MMMM) CAPABILITY ON VLF/LF SYSTEM. HILL SIGNIFICANTLY IMPROVE EAST TRANSMISSION ACTURACY, SHORTEN TRANSMISSION TIME, AND IMPROVE RANGE. WILL MAKE THE WMABNCP VLF/LF SYSTEM COMPATIBLE WITH MAY TACAMU AIFCRAFT AND TPIDEN, SSRNS (NMFM TO BE INSTALLED IN FY85). ALSO PROVIDES A SYSTEM THAT WILL BE COMPATIBLE WITH VLF/LF JINIATURE RECEIVE TERMINALS (MRTS) SCHEDULED TO BE INSTALLED ON STRATEGIC BOMBERS. PROVIDES AN INTERIM CAPABILITY UNTIL THE DIVERSITY RECEPTION EQUIPMENT IS COMPLETED.

SCOPE OF PROGRAM

SCOPE OF PROGR	AM											
		IOR	Ł.	Y-85	FY	-36	F	Y-87	1.0	TEAR	70	TAL
	QTY	COSI	a T f	COST	9 T Y	COST	QTY	COST	QTY	COST	Q i Y	COST
					12	8.5					12	8.5
BASIS FOR COST												
ESTIMATE.												
RONRECURRING						2.7						2.7
KITS					12	3.4					12	3.4
DATA						1.3						1.3
SUPPORT-LQUEP						1.1						1.1
TOTAL					12	8.5					12	8.5

METHOD OF IMPLEMENTATION INSTALLATION — CONTRACTOR FACILITY LEAD TIME $\gamma=18$ Months

* LESS THAN \$ 50,000

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FY-86 APPROPRIATION; AIRCRAFT PROCUREMENT, AIR FORCE

MODIFICATION TITLE AND NO DIVERSITY RECEPTION EQUIPMENT, MN-3067

MODELS OF AIRCRAFT AFFECTED; EC-135H/K/P/C

DESCRIPTION/JUSTIFICATION THE DIVERSITY RECEPTION EQUIPMENT (DRE) IS A MODIFICATION TO THE AN/ALP-96 VLF/LF SISTEM. A INO CHANNEL PROCESSOR WILL BE INCORPORATED TO COMBINE THE PRESENT VERTICALLY POLARIZED SIGNALS WITH THE NEW HORIZONTALLY POLARIZED SIGNALS.

SCOPE OF PROGR		IOR	c	Y-85	F	Y-36	F	1-87	410	FÁC	TO	TAL
	QTY	COST	aty	ESST	OTY	COST	Q TY	COST	QTY	COST	QTY	C78T
							5	17.2	19	83.9	24	101.1
BASIS FOR COST ESTIMATE;												
NONRECURRING							1	3.1 13.9	2 17	6.1 31.6	_ 3	9.2
KITS DATA SUPPORT-EQUIP							4	13.9	17	31.6 3.0 23.2	21	65.9 3.2 23.8
TOTAL			• - •		******		5	17.2	19	83.9	24	101.1

#ADT TO THE THE TERMINATION INSTALLATION TO DEPTH THE TERMINATION TO THE THE TERMINATION TO THE THE TERMINATION TO THE THE TERMINATION TO THE TERMINATION TO THE TERMINATION TO THE TERM

* LESS THAN . 53,000

FY-86 APPROPRIATION; AIRCRAFT PROCUREMENT, AIR FORCE

MODIFICATION TITLE APD NO CINCCENT *IRCRAFT REFURBISHMENT

-ODELS OF ATRICRAFT AFFECTED; &C-135H/f

DESCRIPTION/JUSTIFICATION MODIFIES CINCCENT AIRCRAFT EC-135h (SN 61-0327) LITH AN ONLOAD AIR PEFUELING CAPABILITY; A COMMUNICATIONS SUITE TO INCLUDE UNF SATCOM ANTENNA, HF ANTENNA, UNF AND VHF/FM RECEIVERS/TRANSMITTERS AND SECURE VOICE CAPAPILITY; AND UPGRADE OF THE AIRCRAFT INTERIOR TO PROVIDE FOR A CINCCENT COMMAND AIRCRAFT. IT ALSO MODIFIES EC-135Y (SN 55-3175) WITH AN ONLOAD AIR REFJELING CAPABILITY AND THE SAME COMMUNICATIONS SUITE AS SN 51-0327.

SCOPE OF PROGR	AM.											
	Р.:	: OR	F.	r-85	F	1-86	ş ·	Y-87	0 J T	YEZR	TO	TAL
	QTY	COST	31.4	COST	QTY	COST	217	CUST	QTY	COST	WTT	COST

BASIS FOR COST ESTIMATE;							5	15.9			2	15.9
NONRECURRING KITS							,	1.4			,	1.4
DATA SUPPORT-EQUIP							•	.2			•	.2
TOTAL							5	15.9			2	15.9

INSTALLATION -- DEPOT LEAD TIME -- 18 MONTHS METHOD . IMPLEMENTATION

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*ODIFICATION OF ACRORAFT FY-86 PLOGPAM

FY-86 APPROPRIATION, AIRCRAFT PROCUREMENT, AIR FORCE

MODIFICATION TITLE AND NO - SROUNDWAVE EMERSENCY METHORS

MODELS OF AIRCRAFT AFFECTED: EC-1358/P/J

DESCRIPTION/JUSTIFICATION GWEN PROVIDES STRATEGIC FORCES, MISSILE WARNING SITES, AND COMMAND CENTERS WITH THE ABILITY TO MAINTAIN LONG WANGE CONNECTIVITY IN A MUCLEAR ENVIRONMENT. CONSIS OF UNMANNER RADIO RELAY STATIONS AND USER TERMINALS (GROUND AND AIRBORNE).

SCOPE OF PROGR	AM											
	PR	IOR	F	Y-85	5	Y-86	FY	-87	7710	EAR	TO	f A L
	a TY	cost	2 T Y	COST	QTY	COST	514	1203	QTY	COST	812	(057
					~,-		******	40.				****
BASIS FOR COST ESTIMATE;							5	10.4	16	26.1	21	36.5
NONRECURRING							3	5.0			1	5.0
KITS Data							4	3.2	15	12.8 9.3	20	16.0
SUFFOR"-EQUIP								5.5		4.8		6.2
TOTAL							5	10.4	16	20.1	25	34.5

METHOD OF IMPLEMENTATION INSTALLATION -- CONTPACTOR FACILITY LEAD TIME -- 12 MONTHS

FY-86 APPROPRIATION; AIRCRAFT PROCUREMENT, AIR FORCE

MODIFICATION TITLE AND NO TOURS

MODELS OF AIRCRAFT AFFECTED" EC-135

DESCRIPTION/JUSTIFICATION PROVIDES RELIABLE AND TIMELY MUCLEAR DETONATION INFORMATION TO THE NCA AND SIGP GINCS FOR ATTACK ASSESSMENT, FORCE RECOVERY, AND FORCE MANAGEMENT.

SCOPE OF PROGRAM

Store or FROOM	P&	104	F '	r-85	F	Y-86	£,	Y-37	0JT1	EAR	75	TAL
	Q T Y	1200	211	COST	RTY	TZC3	\$ T ~	COST	QTY	COST	QTY	cost
BASIS FOR LOST ESTIMATE:							4	47.1	20	103.2	24	159.3
NONRECURRING KITS DATA SUPPORT-EQUIP							3 1	26.1 3.8 11.5 5.3	: 19	9.3 33.2 6.3	20	35.4 87.0 18.2 9.7
TOTAL	******						4	47.1	50	173.2	24	150.3

METHOD OF IMPLEMENTATION INSTALLATION -- CONTRACTOR FACILITY & EAD II 48 -- 18 MONTHS

FY-86 APPROPRIATIONS AIRCRAFT PROJUREMENT, AIR FORCE

MODIFICATION TITLE AND NO 49-26 UPGRADE

MODELS OF AIRCRAFT AFFECTED; SIMULATOR

DESCRIPTION/JUSTIFICATION JPGPADES MB-26 (KC-13>) OPERATIONAL FLIGHT TRAINER TO CURRENT CONFIGURATION, REPLACES UNSJPPORTABLE SYSTEMS, AND PROVIDES NEW COMPUTATIONAL AND VISUAL SYSTEMS AND A MOTION BASE.

SCOPE OF PROGRAM

Jeer L of Trader		IOR	F.	Y-85	F	-86	FY	-87	YTLO	EAR	TO:	FAL
	614	COST	3.1	COST	914	COST	2 T Y	COST	QTY	COST	QTY	COST
			*****					34.7	12	68.3	18	103.0
BASIS FOR COST ESTIMATE;							_					
KITS							ś		12	61.5	18	90.3
DATA Support-Equip								3.4 2.1		1.9 5.3		5.3 7.4
JATOT							6	34.7	12	58.3	18	103.0

METHOD OF IMPLEMENTATION INSTALLATION -- DEPOT LEAD (IME -- 18 MONTHS

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F1-86 APPROPRIATION; AIRCRAFT PROJUREMENT, AIR FORCE

MODIFICATION TITLE ANY NO - MIESTAR UNF TRANSITION

MODELS OF AIRCRAFT AFFECTEDS, EC-135C/P/n/J

SOTAL

DESCRIPTION/JUSTIFICATIO: THIS MODIFICATION REPLACES CURRENT AFSATOOM PROCESSORS, MODEMS, POWER AMPLIFIERS INPUT/OUTPUT DEVICES AND ANTENNAS WITH MILSTAR-COMPATIBLE HARDWARE. ALL HARDWARE IS WELL WITHIN CURRENT STATE-OF-THE-ART TECHNOLOGY AND WILL PEMAIN ON THE AIRCRAFT WHEN THE MILLITAK ENFIGABILITY IS ADDED. THIS MODIFICATION IS REQUIRED TO TRANSITION THESE FERMINALS TO MILSTAY, PESOLVE A POTENTIAL FREQUENCY INTERFERENCE PROBLEM, CORRECT FORE DEFICIENCIES AND TO PROVIDE PROPER FREQUE CY-HOPPING ALGORITHM FOR COMPATABILITY WITH CHANGES BEING MADE TO THE AFSATOON THANSFORDER ON THE SATELLITE DATA SYSTEMS SPACECRAFT.

SCOPE OF PROGRAT TOTAL PRIOR FY-85 FY-86
TY COST STY COST GTY COST FY-57 OJTYEAR 27Y COST COST 25 69.1 25 BASIS FOR CUST ESTIMATE: 1.5 54.6 4.5 8.5 1.5 NONRECURRING 25 25 DATA 4 3 8.5 SUPPORT-EGUI?

59.1

25

69.1

METH, OF IMPLEMENTATION PRINCIPAL CONTRIBUTION -- DEPTHE TEAM LEAD IT ME -- 18 HONGE

FY-86 APPROPRIATION; AIRCPAFT PROCUREMENT, AIR FORCE

MODIFICATION TITLE AND NO REGENCY NET

MODELS OF AIRCRAFT AFFECTED; EC-135H

DESCRIPTION/JUSTIFICATION PROVIDE CAPABILITY FOR USCINCEUR ABNCP TO INJECT EMERGENCY ACTION MESSAGES DIRECTLY INTO THE RESENCY NET WITHOUT DEPENDENCE ON SROUND ENTRY PUBLIS.

SCOPE OF PROGRAM

	PR	IOR	F.	r-85	F.	Y-86	5.4	-87	YTLO	EAR	10	TAL
	QTY	COST	3 7 4	COST	QTY	COST	QTY	COST	QTY	COST	GTY	COST
		*******					2	14.0	2	7.0	4	21.0
BASIS FOR COST ESTIMATE;												
NONRECURRING								2.8				2.8
KITS							2	8.0	2	6.5	4	14.5
DATA								.7				.7
SJPPCRT-EQUIP								2.5		. 5		3.0
TOTAL							5	14.0	2	7.0	4	21.0

METHOD OF IMPLEMENTATION INSTALLAT ON -- CONTRACTOR FACILITY LEAD TIME -- 24 MONTHS

FY-86 APPROPRIATION; AIRCRAFT PROCUREMENT, AIR FORCE

MODIFICATION TITLE AND NO REPLACE MC-1 AUTOPILOT, MN-13405A

MODELS OF AIRCPAFT AFFECTED; C-135

DESCRIPTION/JUSTIFICATION REPLACES MC-1 AUTOPILOT AND AJTOPILOT WIRING WITH AN OFF-THE-SHELF STATE OF THE ART SYSTEM DUE TO FREQUENT FAILURES AND UNCOMMANDED INPUTS. 800 UNCOMMANDED INPUTS WERE REPORTED IN A SIX-MONTH REPORTING PERIOD; RECENT INSPECTION REVEALED 23% OF ALL AIRCRAFT HAD FAJLTY WIRING.

SCOPE OF PROGRAM

	PRI	OR	FY	-85	FY	-36	F	1-87	0.11	r E A R	10	TAL
	QTY	COST	311	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST
	16	14.7	216	27.2	300	30.4	213	55.5		,,	745	94.5
BASIS FOR COST ESTIMATE;												
NONRECURRING	3	13.4									2	13.4
KITS DATA SUPPORT-EQUIP SIM/TRAINER	13	1.3	216	21.2 1.5 2.6 1.9	300	27.9 2.5	213	22.2			742	72.6 4.0 2.6 1.9
TOTAL	16	14.7	216	27.2	300	30.4	213	22.2			74!	94.5

METHOD OF IMPLEMENTATION INSTAL_ATION -- DEPOT/FIELD TEAM LEAD TIME -- 19 MONTHS

FY-86 APPROPRIATION; AIRCXAFT PROCUREMENT, AIR FORCE

MODIFICATION TITLE AND NO LIFE EXTENSION-WING RESKIN, MN-143G23

MODELS OF AIRCRAFT AFFECTED; C-135

DESCRIPTION/JUSTIFICATION SERVICE LIFE OF C-135 AIRCRAFT IS 8,500 TANKER EQUIVALENT FLYING HOURS. REPLACEMENT OF LOWER WING SKIN IS REQUIRED TO ALLOW THE AIRCRAFT TO MEET PROGRAMMED SERVICE LIFE.

SCOPE OF PROGRAM

30072 01 7 400,47	PRI	OR	FY	r-85	FY	-36	F	Y-87	TLO	YEAR	TO	FAL
	QTY	iúsi	311	COST	4 f Y	COST	2 T Y	COST	QTY	1260	614	COST
	605	247.2	72	36.5	72	38.9					749	322.6
BASIS FOR COST ESTIMATE;												
KITS	456	195.5	72	36.5	72	38.9					600	270.9
PRIOR YRS	149	51.7									149	51.7
10 TAL	605	247.2	72	36.5	72	38.9					749	322.6

METHOD OF IMPLEMENTATION INSTALLATION -- CONTRACTOR FACILITY LEAD TIME -- 22 MONTHS

FY-86 APPROPRIATION; AIRCRAFT PROCUREMENT, AIR FORCE

MODIFICATION TITLE AND NO ENGINE CONVERSION, MN-13311C

MODELS OF AIRCRAFT AFFECTED; C-12

DESCRIPTION/JUSTIFICATION THE ARMY C-12 AND THE COMMERCIAL AIRCRAFT HAVE CONVERTED TO MORE CURRENT MODEL OF THE PT-6A ENGINE NOW USED IN THE AIR FORCE AIRPLANES. THE SMALL NUMBER OF USAF C-12°S ARE BECOMING FXPENSIVE TO SJPTORT THERFORE, THE ENGINES WILL BE COMVERTED TO THE STANDARD CURRENT CONFIGURATION.

SCOPE OF PROGRA		108	FY	-85	FY	-86	FY	-87	YTLO	EAR	TO	TAL
	9 T Y	COS	211	COST	QTY	COST	914	COST	211	COST	QTY	COST
BASIS FOR COST			3	1.3	12	5.0	12	5.1	5	1.1	29	12.5
ES:IMATE; Kits Data			3	1.3	12	5.7	12	5.1	2	1.1	29	12.5
TOTAL			3	1.3	12	5.0	12	5.1	5	1.1	29	12.5

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TOPOS -- DETT CAST -- DEPOS -- S MOITATAMMENT -- S MOITAMMENT -- S MOITAMMENT

FY-Bo APPROPRIATIONS AIRCRAFT PROCUREMENTS AIR FORCE

MODIFICATION TITLE AND NO HAVE BUICK A NET

MODELS OF AIRCRAFT AFFECTED; E-34

PROGRESS OF THE SECTION OF CALIDATION OF CALIDATION OF CALIDATE SECTIONS OF CALIDATES OF CALIDADES OF CALIDAD

SCOPE OF PROGRAM

	PR	PRICR		FY-85 FY-86 FY-87 OJTYEAR		101	FAL					
	QIY	COST	314	COST	QTY	COST	211	1203	QTY	cos:	614	COST
			3	10.6	9	25.5	9	24.3	12	32.0	33	92.4
BASIS FOR COST ESTIMATE:			•	, 0.0	·	.,,,	·		, ,	32.0	33	
KITS DATA SUPPORT-EQUIP			*	7,1 .5 3.0	9	25.5	9	24.3	12	32.0	33	88.9 .5 3.0
TOTAL				10.6		25.5	9	24.3	12	32.0	33	92.4

TOGGE -- PITALLATIV MOITATHAMAJAMI TO DONTAM SHINOM PE -- AMAIT CAAL

FY-86 APPROPRIATION; AIRCRAFT PROCUREMENT, AIR FORCE

MODIFICATION TITLE AND NO #X/APY-1 RADAR SYSTEM, MN-116338

MODELS OF AIRCRAFT AFFECTED; E-3%

DESCRIPTION/JUSTIFICATION DURING DESIGN/PRODUCTION OF THE AN/APY-2 RADAR (AWACS STANDARD), 74 ITEMS WHICH WERE TO HAVE BEEN COMMON TO THE AN/APY-1 (AWACS CORE) WERE MODIFIED. THERE ARE NOW 15 CONFIGURATIONS ON THE 24 CORE AIRCRAFT, RESULTING IN OPERATIONAL AND SUPPORT LEFICULTIES. MODIFICATION WILL BRING APY-1 ITEMS UP TO APY-2 CONFIGURATION AND ALLOW TWO-WAY INTERCHANGABILITY ON THE COMMON ITEMS.

SCOPE OF PROGRAM

Jeon C Dr Roam		LOR	FY	r-85	F	r-86	F	Y-87	710	YEAR	10	TAL
	2 T Y	cost	31 A	COST	QTY	COST	g T Y	COST	QTY	COST	QTY	COST
BASIS FOR COST			1	4.7	11	6.5	12	5.3			24	16.5
ESTIMATE; NONRECURRING NITS			1	3.3	11	5.0	12	5.3			1 23	3.3 10.3
DATA				1.4	• • •	1.5		,			.,	2.9
TOTAL			1	4.7	11	6.5	12	5.3			24	16.5

TOTAL -- TO ITALLATION OIT AT MANAGEMENT TO MONTH SHIPM A CAST CAST

* LESS THAN \$ 50,000

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FY-86 APPROPRIATION; AIRCRAFT PHOCUREMENT, AIR FORCE

MODIFICATION TITLE AND NO NAVSTAR GPS, MN-3150

MODELS OF AIRCRAFT AFFECTED; E-34

DESCRIPTION/JUSTIFICATION NAVETAR GLOBAL POSITIONING SYSTEM (GPS) I ROVIDES MOREDMIDE THREE-DIMENSIONAL POSITIONING/MAVIGATION FOR MILITARY AIRCRAFT. THE SYSTEM HAS THREE SEGMENTS; USER EQUIPMENT, SATELLITES, AND A CONTROL HETFORK, SATELLITES BROADCAST ACCURATE DATA WHICH USER EQUIPMENT RECEIVES, COMPLETS PLATFORM POSITION AND VELOCITY, THE PROVIDES STEERING VECTORS TO TARGET LOCATIONS OR NAVISATION BAYMOINTS. THE FONTROL SEGMENT HAILY UPDATES THE MAVIGATION HESSAGES BROADCAST FROM THE SATELLITES.

SCOPE OF PROGRAP

SCOPE OF PROGRA		IOR	F	-85	5.	r-85	FY	-87	YILO	EAR	TO	AL
	QTY	COST	9. ₹ ¥	COST	ALA	COST	Q FY	0087	QTY	COST	QTY	COST
	/						1	4.4	33	8.3	34	12.7
BASIS FOR COST												
ESTIMATE;												
NONRECURRING							1	2.5			1	2.5
KITS									33	5.2	33	5.2
DATA										2.5		2.5
SUPPORT-EQUIP								1.,9		. 3		2.2
SIM/TRAINER										. 3		.3
TOTAL							1	4.4	33	8.3	34	12.7

METHOD OF IMPLEMENTATION THATALLATICS -- DEPOT LEAD TIME -- 30 MONTHS

* LESS THAN \$ 50,000

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FY-86 APPROPRIATION; AIRCRAFT PROCUREMENT, AIR FORCE

MODIFICATION TITLE AND NO AWACS ESM (AIR DEF)

MODELS OF AIRCRAFT AFFECTED: E-34

CESCRIPTION/JUSTIFICATION THE ELECTRONIC SUPPORT MEASURES (ESM) SET WILL ALLOW THE E-3 TO PASSIVELY DETECT, LOCATE, AND IDENTIFY AIRBORNE SHIPBORNE, AND GROUND BASEC EMITTERS. ESM EQUIPMENT WILL BE STANDALONE. CONTROL AND DISPLAY FUNCTIONS WILL BE INTEGRATED WITH E-3 SITUATION DISPLAY CONSOLES (SDC) CONTROLS AND DISPLAYS. ESM DATA WILL NOT BE SUTOMATICALLY CORRELATED ("FUSED") WITH E-1 RADAR DATA.

	F R	IOR	Fi	1-85	F	Y-86	FY	r-87	YTLO	EAR	101	TAL .
	QTY	COST	311	COST	CTY	COST	QTY	COST	QTY	COST	QTY	COST
							5	23.1	28	139.4	33	132.5
BASIS FOR COST							•	•••				
ESTIMATS:												
HONNECURATEG								1.0				1.0
KIT'S							5	18.0	8 5	109.4	33	127.4
DATA								2.1				2.1
SUPPORT~EQUIP								2.0				2.0
							~					
TOTAL							5	23.1	2.8	109.4	33	132.5

TOTAL -- DEPCT LATER TO TALLATION -- DEPCT LEAD FINE -- DEPCT LEAD FIN

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FY-86 APPROPRIATION; AIRCRAFT PROCUTEMENT, AIR FORCE

MODIFICATION TITLE AND NO - STIDS TABLE S

MODELS OF AIRCRAFT AFFECTED: E-34

DESCRIPTION/JUSTIFICATION CONVERTS E-3 JTIDS FROM IJMS TO TADIL J MESSAGE STANDARD. REPLACES CLASS 1 J'IDS TERMINALS WITH CLASS 2 JTIDS TERMINALS.

SCOPE OF PROGRA		ICR FY-85 FY-86 FY-8		r-87	0JT1	EAR	TOTAL					
	8 11	COST	3 T Y	COST	211	COST	2 TY	COST	QTY	COST	QTY	COST
							8	5.4	9.5	15.5	34	22.2
BASIS FOR COST ESTIMATE;												
KITS DATA							و	5.4	5.6	15.7	34	21.1
SUPPORT-EQUIP										. 8		.8
TOTAL				*			5	5.4	26	16.8	34	22.2

METHOD OF IMPLEMENTATION INSTALLATION -- URG/INTERMEDIATE LEAD TIME -- 12 MONTHS

FY-86 APPROPRIATION; AIRCRAFT PROJUREMENT, AIR FORCE

MODIFICATION TITLE AND NO. E-4 COMMUNICATIONS ENHANCEMENTS

MODELS OF AIRCRAFT AFFECTED: E-43

DESCRIPTION/JUSTIFICATION PROVIDES NINE CUBSYSTEM ENHANCEMENTS TO EXISTING E-48 CUMMUNICATION SYSTEMS. PRIORITY REQUIREMENT TO SUPPORT NEACH OPERATIONS. PROVIDES SIGNIFICANT IMPROVEMENTS TO COMMUNICATION CAPIBLITY FROM NCA TO EXECUTING COMMUNICATION CAPIBLITY FROM NCA TO EXECUTING COMMUNICATION TO BE INSTITUTED UNDER THIS PROCESM INCLUDE IMPROVED HIGH FREQUENCY SYSTEMS AND IMPROVED LOW TO MEDIUM FREQUENCY RECORD COMMUNICATION TERMINAL.

SCOPE OF PROGRAM

	PRIOR		F	r-85	FY	-36	F	Y - 8 7	110	YEAR	70	TAL
	Q~Y	72CO	314	COST	QTY	COST	QTY	COST	GTY	cost	QTY	COST
					4	18.0					4	18.0
BASI: FOR COST					•						•	
ESTIMATE;												
NONRECURRING					1	7.5					1	7.5
KITS					د .	8.0					3	8.0
DATA						. 1						.1
SUP DAT-EQUI						2.4						2.4
												~
TOTAL					4	13.0					4	18.0

ME HOD OF IMPLEMENTATION INSTALLATION -- DEPOT LCAD TIME -- 12 MONTHS

FY-86 APPROPRIATION; AIRCRAFT PROCUREMENT, AIR FORCE

MODIFICATION TITLE AND NO DIVERSITY RECEPTION EQUIPMENT

MODELS OF AIRCRAFT AFFECTED: E-43

DESCRIPTION/JUSTIFICATION MODIFIES THE ARC-96 LF/VLF SYSTEM TO INCORPORATE A TWO-CHANNEL PROCESSOR TO COMBINE THE PRESENT VERTILA/LY POLARIZED SIGNALS WITH THE NEW HORIZONTALLY POLARIZED SIGNALS. THIS MOD WILL ALSO INCORPORATE THE MEECN MESSAGE PROCESSING MODE (MMPM).

	PR	IOR	Fi	r-85	FY	-86	F	Y-87	0,11	EAR	10	YAL
	QTY	cosr	31 A	COST	RTY	COST	QTY	COST	GTY	COST	ery	COST
							1	9.6		11.9	4	21.5
BASIS FOR COST							,	,.0	,	11.7	•	,
ESTIMATE;												
MONRECURRING							1	4.0			1	4.0
KITS									- 3	8.2	3	8.2
DATA								2.0		3.7		5.7
TOOLING								3.6				3.6
TOTAL							1	9.6	3	11.9	4	21.5

METHOD OF IMPLEMENTATION INSTALLATION -- CONTRACTOR FACILITY LEAD TIME -- 15 MONTHS

LEES THAN \$ 50,000

FY-86 APPROPRIATION; AIRCRAFT PROCUREMENT, AIR FORCE

MODIFICATION TITLE AND NO - SROUNDWAVE EMERGENCY NET

MODE I OF AIRCRAFT AFFECTED: E-43

TO PIPTION/JUST (FICATION PROVIDES U.S. STRATEGIC FORCES) MAI SILE WARNING SITES, AND COMMAND CENTERS WITH THE ABILITY TO MAINTAIN CRITICAL LONG-RANGE IDVINCTIVITY IN A NUCLEAR ENVIRONMENT. STOTEM CONSISTS OF A NETWORK OF JUMANNED RADIO RELAY STATIONS AND USER TERMINALS.

CF PROGRAM

		IOR	ş :	r-85	F	-86	F,	V-87	110	YEAR	70	TAL
	QTY	COST	214	COST	QTY	COST	914	COST	QTY	COST	QTY	COST
BASIS FOR COST ESTIMATE,							?	2.0	5	6.1	4	8.1
NONRECURRING KITS DATA							1	1.3	2	1.9	1 3	1.0 2.8
TOOLINE								••		4.2		4.2
TOTAL							5	2.3	5	6.1	4	8.:

ME HOD OF IMPLEMENTATION INSTALLATION -- CONTRACTOR . LLL: LFAD FIME -- Y2 MONTHS

. LESS THAN S SC.COC

FY-86 APPROPRIATION; AIRCRAFT PROCUPEMENT, AIR FORCE

MUDIFICATION TITLE AND NO MILSIAR UNF TRANSITION

MODELS OF AIRCPAFT AFFECTED: E-43

DESCRIPTION/JUSTIFICATION THIS MODIFICATION REPLACES CURRENT AFSATOOM PROCESSORS, MODEMS, POWER AMPLIFIERS INPUT/OUTPUT DEVICES AND ANTENNAS WITH MILSTAR COMPATIBLE HARDWARE. ALL HARDWARE IS WELL WITHIN CURRENT STATE-OF-THE-ART TECHNOLOGY AND WILL REMAIN ON THE AIRCRAFT WHEN THE MILSTAR EHF CAPABILITY IS ADDED. THIS MODIFICATIOM IS REQUIRED TO TRANSITION THESE TERMINALS TO MILSTAP, RESOLVE A POTENTIAL FREQUENCY INTERFERENCE PROBLEM, CORRECT FOTBE DEFICIENCIES AND TO PROVIDE PROPER FREQUENCY-HOPPING ALGORITHM FOR COMPATABILITY WITH CHANGES BEING MADE TO THE AFSATOOM TRANSPONDER ON THE SATELLITE DATA SYSTEMS SPICECRAFT.

SCOPE OF PROGRAM

		104	F.	r - 85	£ 3	Y-36	FY	- 27	110	YEAR	10	TAL
	917	1200	314	CCST	QTY	COST	PTY	COST	QT.	COST	21 Y	COST
BASIS FOR COST		•••••					•	10.6			4	10.6
ESTIMATE; Nohrecurring								.2				•5
KITS DATA SUPPORT-EQUIP							4	9.3 .6 .8			4	9.0 .6 .8
14101			• • • • • • • • • • • • • • • • • • • •		•		•	10.6			4	10.6

MEST TOTOL -- COLITATION -- CENTRAL TO THE TEACH TO THE TEACH SHOULD SHO

FY-86 APPROPRIATION; AIRCRAFT PROCUREMENT, AIR FORCE

MODIFICATION TITLE AND NO - AWABNCP SHE/FOM REPLACEMENT

MODELS OF AIRCRAFT AFFECTED; E-49

DESCRIPTION/JUSTIFICATION REPLACES PRIMARY WWARMCP LINE-OF-SIGNT UHF COMMUNICATION SYSTEM WITH MUCLEAR MARGENED STATE-OF-THE-x27 RADIOS AND A DIGITAL INTERCOMMUNICATIONS AND SWITCHING SYSTEM (LAISS).

SCOPE OF PROGR	AA S											
	PR	IOR	F.	Y-85	FY	-85	F	1-87	0U T 1	r E A R	10	TAL
	QTY	COST	314	COST	QTY	COST	911	COST	QTY	C 0 \$ T	411	COST
							2	26.2	2	13.1	4	39.3
BASIS FOR COST	7						•		_			
ESTIMATE; Nonrecurring							1	16.3			1	16.3
KITS							1	5.6	3	11.1	3	16.7
DATA								4.3		2.0		6.3
TOTAL							5	26.2	5	13.1	4	39.3

YTILIDET FOTOLATION -- HOLLATION -- CONTRACTION TO CONTEM ZHINOR BE -- BMIT CASH

FY-86 APPROFRIATION; AIRCOAFT PROCUREMENT, AIR FORCE

RODIFICATION TITLE AND NO SOF IMPROVEMENTS

MODELS OF AIRCRAFT AFTECTEDS - HH-530

DESC'IPTION/.USTIFICATION MODIFICATION INCLUDES: SATCOM, NVG LIGHTING, MISSILE WARNING RECEIVER, RADAP WARNING RECEIVER, SECURE COMM., INS DOPPLER, .SO CAL MACHINE GUM, INTERNAL AUX FUEL TANKS AND INFRAPED COUNTERNEASURES. THIS MODIFICATION MEETS THE REQUIREMENTS OF THE SOF MASTER PLAN.

	ን ያ	128	£	r-85	F '	Y -55	F	Y-87	0.11	r e a r	TO	TAL
	QTY	LOST	2 T Y	COST	314	COST	514	1203	QTY	COST	QTY	COST
							,	2.5	1	6.0		8.5
BASIS FOR OST							•	,	,	0.0	,	0.7
ESTIMATES												
NUMBECURRING							1	1.0			1	1.0
KITS							1	1.4	3	4.4	4	5.8
DATA								.1		. 2		. 3
SI PPORT-EQUIP										. 8		. \$
4(D OF SPARES										- 6		. 6
1 TAL							2	2.5	3	6.0	5	8.5

* THEO OF IMPLEMENTATION INSTA ATION -- DEPOT LEAD TIME -- 18 MONTHS

* LESS THAN \$ 50,000

FY-86 APPROPRIATION; AIRCRAFT PROCUREMENT, AIR FORCE

MODIFICATION TITLE AND NO H-5. SLEP. MN-136288

MODELS OF AIRCRAFT AFFECTED; H-53

DESCRIPTION/JUSTIFICATION THIS EFFORT IS THE SERVICE LIFE EXTENSION PROGRAM (SLEP), OF SIXTEEP (16)
INITIATIVES WHICH INCLUDE: A MAJOR REFURBISHMENT OF THE FUSELAGE, ELECTRICAL AND HYDRAULI SYSTEMS. THE MAIN ROTOR AND TAIL PYLON WILL BE REPLACED, ENGINE AND ACCESSORY GEARBOXES WI BE UPGRADED, ALONG WITH LANDING SEAP, ENGINE, SWASHPLATE, SELF-RETAINING BOLFS AND TAIL RO BLADE IMPROVEMENTS.

SCOPE OF PROGRAM FY-86 PRIOR FY-85 FY-87 OJTYEAR TOTAL ALA COST STA COST CO\$ T ATY COST aty cost ety cost QTY 1 18.8 12 45.4 31 122.9 44 187.1 BASIS FOR COST ESTIMATE; 17.3 134.2 3.5 3.6 NONRECUPRING 1 17.3 35.4 KITS 12 31 43 98.8 1.0 SUPPORT-EQUIP 3.1 SI#/TRAINER 4.2 28.3 MOD OF SPARES

18.8

12

45.4

FOR THE TOTALLATION OF THE FOR THE TOTAL THE TOTAL TOTAL TOTAL THE TOTAL THE

* LESS THAN \$ 50,000

TOTAL

24.1

122.9

31

187.1

FY-86 APPROPRIATION: FIRCRAFT PRODUCEMENT, AIR FORCE

MODIFICATION TITLE AND NO TAIL PYLON REPLACEMENT, MN-62173A

MODELS OF AIRCRAFT AFFECTED: H-53

DESCRIPTION/JUSTIFICATION BECAUSE OF CONTINUING CRACK PROPAGATION IN THE TAIL PYLON, IT HAS BEEN DETERMINED THAT A MEW PYLON OF GREATER STRUCTURAL INTEGRITY IS RE2'D. THERE HAVE BEEN 8 FAILED PYLON FITTINGS SINCE 1978. THERE IS A POSSIBILITY OF CATASTROPHIC FAILURE IF SUCH CRACKING GOES JANOTICED. THERE IS ONLY ONE SEVICEABLE SPARE PILON AVAILABLE, AND REPAIR LEAD TIME IS 39 MONTHS.

SCOPE OF PROGRAM

	PR:	IOR	F '	Y-85	FY	-86	ΓY	-87	OJT	YEAR	TO	TAL
	Q T Y	COST	311	COST	Q T Y	cost	QTY	r 2 c 3	QTY	COST	QTY	COST
BASIS FOR COST		•••••			16	5.3	29	7.7		*	45	13.C
ESTIMA "; NONRECURRING KITS DATA					1 15	1.1 3.8 .4	29	7.7			1 44	1 1 1 1 1 5 . 4
TOTAL	******	******			16	5.3	29	7.7			4.5	13.0

METHOD OF IMPLEMENTATION INSTALLATION -- DEPOT/FIELD TSAM LEAD TIME -- 27 MONTHS

- LESS THAN & SOUCCO

FY-86 APPROPRIATION; AIRCRAFT PROCUREMENT AIR FORCE

MODIFICATION TITLE AND NO - MILSTAR AFSATEDM TERM JPGPASE/DUAL MODEM

MODELS OF AIPCRAFT AFFECTED. KC-10

DESCRIPTION/JUSTIFICATION MODIFICATION PROVIDES PRINTED CIRCUIT BOARD REPLACEMENTS FOR THE AFSATCOM TERMINAL DUAL MODEM INDUIFICATION REQUIRED TO TRANSITION THESE TERMINALS TO MILSTAR, RESOLVE A POTENTIAL FREQUENCY INTERFERENCE PROBLEM, CORRECT FOTBE DEFICIENCIES AND TO PROVIDE PROPER FREQUENCY-HOPPING ALSORITHM FOR COMPATIBILITY WITH CHANGES BEING MADE TO THE AFSATCOM SATELLITE TRANSPUNDER ON THE SATELLITE DATA SYSTEMS SPACECRAFT.

SCOPE OF PROGRAM

300-2 01 7 800 81		IOR	£ .	1-85	F	r-86	F	Y-8?	DJT	YEAR	101	TAL
	2 T Y	cost	211	COST	311	1200	2 TY	COST	QTY	COST	QTY	COST
BASIS FOR COST			•••••		60	3.3			•		60	3.3
ESTIMATE; NONRECURRING KITS DATA					60						60	2.0
SUPPORT-EQUIP SIM/TRAINER						.4						.4
141 OT					60	3.3					60	3.3

METHOD OF IMPLEMENTATION - OITATION -- ORG/INTERMEDIATE __ LAD IIME -- 11 MONTHS

FY-80 APPROPRIATION: AIRCRAFT PROCUREMENT, AIR FORCE

MODIFICATION TITLE AND NO CC-10 CARGO LOADING SYSTEM

MODELS OF AIRCRAFT AFFECTED; KC-10A

DESCRIPTION/JUSTIFICATION MODIFICATION PROVIDES A TRANSPORTABLE PALLET LOADER FOR THE KC-10A AIRCRAFT. IT CONSISTS OF A WINCH AND PORTABLE PALLET LOADER TO ALLOW TRANSPORT OF PALLET SIZED LOADS OF EQUIPMENT.

SCOPE OF PROGRAM

SCOPE O PROGR		IOR	F '	r-85	F	7-6c	F	1-87	110	YEAR	cī	TAL
	QTY	COST	2 T Y	COST	0 I Y	COST	2 T Y	COST	QTY	COST	QTY	COST
							14	4.2	40	18.6	63	22.8
BASIS FOR COST	Ī											
NONRECURRING								.4				.4
KITS							14	3.8	4.6	17.8	60	?1.6
DATA SUPPORT-EQUIP										. 4		. 4
2077ORI-EQUIP										. 4		
TOTAL							14	4.2	46	18.6	60	22.8

METHOD OF IMPLEMENTATION INSTALLATION -- ORS/INTERMEDIATE LEAD TIME -- 12 MONTHS

C'10 . U & NAHT 2231 .

FY-86 APPROPRIATION; AIPCRAFT PROCUREMENT, AIR FORCE

MODIFICATION TITLE AND NO ADVANCED DEFENSE SYSTEM

MODELS OF AIRCRAFT AFFECTED; TR-1

DESCRIPTION/JUSTIFICATION PROVIDES NEW PASSIVE DEFENSIVE SYSTEMS TO COUNTER THE PROJECTED THREAT.

SCOPE OF PROGR		IOR	FY	r-85	F	1-86	F	Y-87	710	Y E AR	TO	TAL
	214	1263	314	COST	211	COST	2 T Y	COST	QTY	COST	QTY	COST
assis for cost			5	9.0	3	6.3	4	7.7	5	10.9	17	33.9
ESTIMATE; NONRETURRING KITS DATA SUPPORT~EQUIP			5	.1 8.6 .1 .2	3	6.3	4	7.7	5	10.9	17	33.5 -1 -2
TOTAL			5	9.0	3	6.3	4	7.7	5	10.9	17	33.9

METHOD OF IMPLEMENTATION INSTALLATION -- DEPOT/FIELD TEAM LEAD TIME -- 18 MONTHS

* LESS THAN \$ 50,000

FY-86 APPROPRIATION; AIRCRAFT PROCUPEMENT, AIR FORCE

MODIFICATION TITLE AND NO SENIOR 3LASS

MODELS OF AIRCRAFT AFFECTED: TR-1

DESCRIPTION/JUSTAFICATION THIS PROGRAM PROVIDES IMPROVED SYSTEM CAPABILITES FOR THE TR-1. SCOPE OF PROGRAM

SLOPE OF PPOGR												
	PR	IOR	F.	∨- 85	FY	-86	FY	-87	OUTY	EAP	T01	ľ A L
	21 Y	COST	211	COST	QTY	COST	QT1	COST	QTY	cos:	QTY	COST
						4.3	2	5.1	6	14.9	9	24.3
BASIS FOR COST ESTIMATE;					•	4.,		J.1	J	14.7	,	24.5
NONRECURRING KITS						.1	2		6	1/ 5	9	.1
DA / A SUPPORT-EQUIP					,	3.0 .5 .6	2	5.1	9	16.9	•	23.0 .6
TOTAL					7	4.3	2	5.1	6	14.9	9	24.3

METHOD OF IMPLEMENTATION INSTALLATION -- DEPOT/FIELD TEAMLER -- 9 MONTA'S

+ LFSS T 4N \$ 50:000

FY-86 APPROPRIATION; AIRCRAFT PROCUREMENT, AIR FORCE

MODIFICATION TITLE AND NO HAVE BUICK II-OTHER IMPROVEMENTS

MODELS OF AIRCRAFT AFFECTED; MULTI

DESCRIPTION/JUSTIFICATION IMPROVES THE JAM RESISTANCE OF HAVE QUICK RADIOS BY INCREASING THE POWER AND PROVIDING FINER FREQUENCY PESOLUTION AND ALTERNATE TIME DISCEMINATION.

SCOPE O PROGREM

Score o		IOR	FY	r-85	FY	-86	£ 9	-67	710	EAR	TO	TAL
	QTY	COST	211	COST	QTY	COST	214	COST	QTY	COST	QTY	COST
04616 (04 6061			*****		1665	13.6	4524	19.3	4510	22.1	10699	55.0
BASIS FOR COST ESTIMATE; NONRECURRING						2.5						2.5
KITS DATA SUPPORT-EQUIP					1665	7.1 1.5 2.5	4524	16.3 1.0 2.0	4510	19.8 1.1 1.2	10699	43.2 3.6 5.7
TOTAL		·			1665	13.6	4524	19.3	4510	22.1	10699	55.0

METHOD OF IMPLEMENTATION INSTALLATION -- ORG/INTERMEDIATE

LE'S TIME -- 16 MOITER

. LESS THAN \$ 50,000

FY-86 APPROPPIATION; AIRCRAFT PHOCUREMENT, AIR FORCE

MODIFICATION TITLE AND NO STO. COMBINED AUTITUDE RADAR ALTIMETER . MN-10611C

MODELS OF AIRCRAFT AFFECTED: MULTI

DESCRIPTION/JUSTIFICATION REPLACES EXISTING RADAR ALTIMETER ON A VARIETY OF AIRCRAFT WITH A NEW SOLID STATE ALTIMETER SYSTEM AHICH WILL MEET ARING SPECIFICATIONS OF A MIBE OF GREATER THAN 2005 MOURS. IT WILL BE A DIRECT REPLACEMENT ACTION ON ALL BUT THE C- 30 AIRCRAFT, WHICH WILL REQUIRE DEFOT LEVEL WIRING SHANGES. EXISTING SYSTEMS HAVE LOW RELIABILITY AND HIGH LOGISTIC SUPPORT COSTS.

SCOPE OF PROGRAM

SECRE OF PROCES	PRI	OR	FΥ	-85	FΥ	-86	FY	-6:	0 J T	YEAR	TO	FAL
	211	COST	31 A	COST	ê Y	(500)	311	COST	QTY	C05*	2. A	COST
	1064	19.8	11	19.6	157	12.6	1395	16.1			4323	68, î
BASIS FOR COST ESTIMATE;												
NONRECURRING	27	4.4									27	4.4
KITS	1037	14.1	1107	14.5	757	9.3	•	14.1			4296	52.0
CATA SUPPORT EQUIP		1.0		.1		*		.1				1.2
TRAINER/SIMUL		٠2.	(37)	5.0	(40)	3.3	(8,)	1.9				10.4
TOTAL	1064	19.8	1167	19.6	757	12.6	1395	16.1			4323	63.1

METHOD OF IMPLEMENTATION INSTALLATION -- ORG'INTERMEDIATE LEAD THE -- 9 RETROM SKINOM

. LESS THAN \$ 50,000

fY-86 APPROPRIATION; AIRCRAFT PROCUREMENT, AIR FORCE

MODIFICATION TITLE AND NO TTU 235 S.E. UPDATE, MN-122359

MODELS OF AIRCRAFT AFFECTED; MULTI

DESCRIPTION/JUSTIFICATION UPDATES THE FIELD TEST SET PRESSURE AND TEMPERATURE TTU-205 TO STATE-OF-THE-ART BY INSTALLING HIGH RELIABILITY COMPONENTS. THE TTU-205 HAS A LOW MEAN TIME BETWEEN FAILURE (MTBF) DUE TO PERATION IN EXTREME ENVIRONMENTAL CONDITIONS AND AGE OF ITS COMPONENTS. THE MTBF IS EXPECTED TO INCREASE FROM 100 TO 1000 HOURS. THIS TESTER IS REQUIRED FOR TESTING ALL FIRST LINE AIRCRAFT PRIOR TO TAKE OFF.

SCOPE OF PROGRAM

		PRIOR		FY-85		FY-B5		FY-87		OUTYEAR		AL
	QTY	COST	, at y	COST	QTY	COST	QTY	COST	QTY	COST	RTY	COST
	256	5.9	500	16.3	525	13.9	169	5.1			1550	44.2
BASIS FOR COST ESTIMATE;												
NONRECURRING . KITS DATA	256	5.2 3.5	600	16.3	525	13.9	169	5.1			1550	.2 40.5 3.5
TOTAL	256	3.9	600	16.3	525	13.9	169	5.1			1550	44.2

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METHOD OF IMPLEMENTATION INSTALLATION -- DEPOT LEAD TIME -- 12 MONTHS

+ LESS THAN \$ 50,000

FY-86 APPROPRIATION; AIRCRAFT PROCUREMENT, AIR FORCE

MODIFICATION TITLE AND NO APN-69 REPLACEMENT, MN-12611B

MODELS OF AIRCRAFT AFFECTED; MULTI

DESCRIPTION/JUSTIFICATION THE CURRENT REFUELING RENDEZVOUS RADAR BEACON IS BECOMING NON SUPPORTABLE AND REQUIRES REPLACEMENT. A COMMON BEACON WILL REPLACE THE CURRENT SYSTEM IN STRATEGIC REFUELABLE AIRCRAFT.

SCOPE OF PROGR		IOR	FY-85		FY	FY-86		FY-87		OUTYEAR		T/:L
	OTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST
				***************************************	5	2.7	194	17.0	814	72.2	1013	91.9
BASIS FOR COST ESTIMATE:	·											
NONRECURRING					5	2.7					5	2.7
KITS DATA SUPPORT-EQUIP							194	15.9 .8 .3	814	72.2	1008	68.1 .8 .3
TOTAL					5	2.7	194	17.0	814	72.2	1013	91.9

METHOD OF IMPLEMENTATION INSTALLATION -- ORG/INTERMEDIATE LEAD TIME -- 12 MONTHS

-86 APPROPRIATION; AIRCRAFT PROCUREMENT, AIR FORCE

DIFICATION TITLE AND NO AN/APY-59E(V) RADAR IMPROVEMENT, MN-12619B

DELS OF AIRCRAFT AFFECTED; MULTI

SCRIPTION/JUSTIFICATION PROVIDES THE FOLLOWING IMPROVEMENTS TO THE AN/APN-59E RADAR: (A) REDUCE THE HIGH RATE OF BURN SPOTS ON THE NAVIGATORS IF-239B INDICATOR, (B) ELIMINATE RANDOM HEADING MARKS (C) IMPROVE THE ANTENNA GIMBAL CAGE LATCHING MECHANISM, (D) REDUCE ANTENNA AZIMUTH MOTOR DRIVE TRANSISTOR FAILURE, (E) REDUCE MAGNETRON FAILURE, (F) REDUCE RECEIVER-TRANSMITTER THYRATRON FAILURE/FIRE POTENTIAL, (G) SUPPRESS TRANSIENT FAILURES ON 25 VOLT DC LINE, (H) MAKE MINOR CHANGES TO THE RECEIVER-TRANSMITTER TO REDUCE MAINTENANCE MAN-HOURS.

PPE OF PROGRA	i PRI	D R	FY-85		FY-86		FY-87		OJTYEAR	TO	TOTAL	
	QTY	COST	2 T Y	COST	QTY	COST	QTY	COST	QTY COS	T QTY	COST	
SIS FOR COST	6	.9	2 3 1	3.0	730	5.2	437	3.3	******	1404	12.4	
RESTIMATE;	6	.9								6	. 9	
TS TA			231	1.5	730	5.2	437	3.3		1398	10.0	
PPORT EQUIP O OF SPARES			(1)	.3							•3	
TAL	6	.9	231	3.0	730	5.2	437	3.3		1404	12.4	

HOD OF IMPLEMENTATION INSTAL.ATION -- DEPOT/FIELD TEAM LEAD TIME -- 17 MONTHS

LESS THAN \$ 50,000

'Y-86 APPROPRIATION; AIRCRAFT PROCUREMENT, AIR FORCE

PODIFICATION TITLE AND NO ALE-43 IMPROVEMENTS, MN-13614B

HODELS OF AIRCRAFT AFFECTED; MULTI

FESCRIPTION/JUSTIFICATION THE ALE-40 SYSTEM IS EXPERIENCING NUMEROUS FAILURES CAUSING THE CHAFF/
FLARES TO FIRE RANDOMLY OR NOT AT ALL.THE MALFUNCTIONS CONSIST OF PROGRAMMER INTERMITTENT PROBLEMS, AND SERIOUS CORROSION IN VARIOUS LOCATIONS. THESE MALFUNCTIONS HAVE REDUCED RELIABILITY
TO UNACCEPTABLE LEVELS. THE MOD WILL RETROFIT NEW CORROSION RESISTANT BREECH PLATES AND
SWITCHES, UPGRADED PROGRAMMER CIRCUIT CARDS, AND MORE DAMAGE TOLERANT COMPONENTS ON THE A-7,
A-10, F-4, F-16, AND HH-53.

COPE OF PROGRA	AM	4.5										
F	PR	IOR	F	Y-85	FY	7-86	F'	Y-87	OJT	YEAR	TO	TAL
•	QTY	COST	ary	COST	QTY	COST	QTY	COST	QTY	COST	RTY	COST

			425	12.6	700	16.8	1401	32.4			2526	61.8
ASIS FOR COST ESTIMATE;												
ONRECURRING			5 4 2 0	1.6	700	16.8	1401	32.4			5 2521	1.6 59.2
ATA UPPORT-EQUIP			. 420	1.0	700	10.6	1401	32.4				1.0
OTAL			4 2 5	12.6	700	16.8	1401	32.4			2526	61.8

ETHED OF IMPLEMENTATION INSTALLATION -- ORG/INTERMEDIATE LEAD TIME -- 6 MONTHS

LESS THAN \$ 50,000

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MODIFICATION OF AIRCRAFT FY-86 PROGRAM

36 APPROPRIATION; AIRCRAFT PROCUREMENT, AIR FORCE

REICATION TITLE AND NO. HE SINGLE SIDE BAND RADIO, MN-16620C

ELS OF AIRCRAFT AFFECTED; MULTI

CRIPTION/JUSTIFICATION THIS MODIFICATION INSTALLS THE AN/ARC-190(V) HF SINGLE SIDE BAND (SSB)
RADIO. CURRENT RADIOS DO NOT MEET THE 1980 REQUIREMENTS FOR CHANNEL SPACING, FREQUENCY ACCURACY
AND STABILITY AND PARKHILL COMPATIBILITY. THE ARC-123 AND AT-440 HAVE HIGH LOGISTICS SUPPORT
COSTS BECAUSE OF UNRELIABLE TJBE TYPE EQUIPMENTS, LOW MEAN TIME BETWEEN DEMAND, AND OBSOLETE
DESIGN ON MANY SUB-ASSEMBLIES. STANDARDIZATION OF HF RADIOS WILL PROVIDE SUBSTAUTIAL LOGISTICS
COST REDUCTIONS.

F OF PROGRAM

FE OF PROGRA	.m PRI	OR	FY	-85	FY	FY-86		r-87	011	YEAR	TOTAL	
	QTY	COST	311	COST	QTY	COST	214	COST	QTY	COST	QTY	COST
S FOR COST	1672	73.3	385	26.0	647	26.0	927	33.1	840	35.2	4471	193.6
ESTIMATE; ECURRING ORT-EQUIP NER	27 1645	13.2 41.4 5.3 3.7 1.7	3 3 82	2.4 12.5 3.1 2.0 6.0	3 644	22.7 .9 1.1	927	31.4 .4 1.3	4 836	2.2 30.4 .8 1.1	37 4434	23.2 138.4 13.5 9.2 9.3
(L)	1672	73.3	3 8 5	26.0	647	26.0	927	33.1	840	35.2	4471	193.6

OF IMPLEMENTATION INSTALLATION -- ORG/INTERMEDIATE LEAD TIME -- 12 MONTHS

, LESS THAN \$ 50,000

-86 APPROPRIATION; AIRCRAFT PROCUREMENT, AIR FORCE

IFICATION TITLE AND NO - STANDARD CENTRAL AIR DATA COMPUTER, MN-41652B

ELS OF AIRCRAFT AFFECTED; MULTI

CRIPTION/JUSTIFICATION REPLACES ELECTRO-MECHANICAL/ANALOG COMPUTERS IN A-7, C-141, C-5, F-4 AND THE FB-111 WITH A NEW STANDARD CADC. THE NEW COMPUTER USES SOLID STATE SENSORS AND DIGITAL CIRCUITS. ITS RELIABILITY/MAINTAINABILITY ARE GREATLY IMPROVED BY PROVIDING CAPABILITY TO PERFORM INTERNAL TESTS TO LOCALIZE FAULTS WITHIN THE DEFECTIVE MODULE.

	PR	IOR	FY	-85	F'	FY -86		-87	OJTYEAR		TOT	AL
	QTY	COST	31 A	COST	QTY	COST	aty	COST	QTY	COST	QTY	COST
e e e			5 08	33.5	685	35.0	766	45.2	438	28.6	2397	142.3
SIS FOR COST ESTIMATE;												. 5
7 S			5 0 8	24.8	685	33.4	766	43.7	438	26.6	2397	128.5 2.7
TA PPORT EQUIP				2.7 4.5		1.6		.1.5		2.0		9.6
MULATORS				1.5								1.5
TAL			508	33.5	685	35.0	766	45.2	438	28.6	2397	142.3

THOO OF IMPLEMENTATION INSTALLATION -- ORG/INTERMEDIATE
LEAD TIME -- 18 MONTHS

* LESS THAN \$ 50,000

PROPRIATION; AIRCRAFT PROCUREMENT, AIR FORCE

TICH TITLE AND NO APR#122 RADAR REPLACEMENT, MN=126033

F AIRCRAFT AFFECTED; MULTI

ION/JUSTIFICATION THE CURRENT WEATHER RADAR ON THE E-4/T-43/MC-13D HAS UNACCEPTABLE LOW LIABILITY. THIS SYSTEM WILL BE REPLACED TO REDUCE LIFE CYCLE COSTS AND ENHANCE OPERATIONAL ADDRESS.

P ∷ 0 G R AI	PRIOR	FY-85	FY-86	FY	-87	OJTY	EAR	TOTAL		
	GTY COST	aty cost	QTY COST	QTY	COST	QTY	COST	QTY	COST	
R COST				6	23.5	63	56.1	69	79.6	
MATE; RILC				2	2.7 4.6	63	56.1	2 67	2.7 60.7	
EQUIP NEP					9.3 5.8 1.1				9.3 5.8 1.1	
				6	23.5	63	56.1	69	79.6	

F 3MPLEMENTATION INSTALLATION -- DEPOT LEAD TIME -- 18 MONTHS

16 APPROPRIATION; AIRCRAFT PROCUREMENT, AIR FORCE

IFICATION TITLE AND NO RECONFIGURE PRODUCTION C-20 ACFT

ELS OF AIRCRAFT AFFECTED; C-23A

CRIPTION/JUSTIFICATION MODIFICATION OF FIRST THREE PRODUCTION COMMERCIAL CONFIGURATION AIRCRAFT TO FULL SPECIAL AIR MISSION CONFIGURATION AS REQUIRED OF REMAINING PRODUCTION (EIGHT ACFT). RESPONDS TO PBD 159 (11-20-84) AND PBD 692 (11-27-84). MAJOR MODIFICATIONS INCLIDE: (1) REPLOF THE CURRENT DC ELECTRICAL SYSTEM AND DUAL INS WITH AN AC ELECTRICAL SYSTEM AND TRIPLE RING LASER GYRO INS, (2) INSTALLATION OF A COMMUNICATIONS OPERATOR'S CONSOLE WHICH CONTROLS ALL PASSENGER COMMUNICATIONS CAPABILITIES, AND (3) ADDITION OF TWO FULL DUPLEX HE RADIO SYSTEMS, A FULL DUPLEX UHF SATCOM SYSTEM, A FILL DUPLEX VHF/FM RADIO SYSTEM, DIGITAL FACSIMILE, AND ASSOCIATED ENCRYPTION DEVICES AND ANTENNAS.

DE OF PROGRA	M PR	TOR	E v	r-85	F,	Y-86	F,	r-87	TUO	YEAR	TO	TAL
	QTY	COST	atv	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST
VE EOG COET							3	12.8			3	12.8
ESTIMATE;							3	12.3			3	12.8
'AL							3	12.8			3	12.8

THOO OF IMPLEMENTATION INSTALLATION -- CONTRACTOR FACILITY LEAD TIME -- 12 MONTHS

APPROPRIATION; AIRCRAFT PROCUREMENT, AIR FORCE

ICATION TITLE AND NO CLASSIFIED PROJECTS

S OF AIRCRAFT AFFECTED; MULTI-AIRCRAFT

y.

IPTION/JUSTIFICATION THESE FINDS ARE REQUIRED TO PROVIDE FOR THE MODIFICATION OF VARIOUS AIR-CHAFT AND AIRBORNE SYSTEMS ISED IN CLASSIFIED MISSIONS, WHICH BECAUSE OF THEIR SENSITIVE NATURE REQUIRE THE APPLICATION OF SPECIAL MANAGEMENT AND SECURITY SAFEGUARDS. SPECIAL JUSTIFICATIONS ARE PROVIDED THROUGH CLASSIFIED INTELLIGENCE CHANNELS.

	PRI	O R	FY	-85	FY-86	FY-87	OJTYEAR	TOTAL
	QTY	COST	317	COST	QTY COST	aty cost	QTY COST	ATY COST
FOR COST		402.7		152.6	114.	119.8	227.0	1016.5
STIMATE; Ified	~ ~ ~ ~ ~ ~ ~	402.7		152.6	114.	119.8	227.0	1016.5
		402.7		152.6	114.	4 119.8	227.0	1016.5
OF IMPLE	MENTATIO			ORG/I 00 MO	NTERMEDIATE NTHS			

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FY-86 APPROPRIATION; AIRCRAFT PROCUREMENT, AIR FORCE

MODIFICATION TITLE AND NO CARGO CONVERTIBILITY, MN-3080

MODELS OF AIRCRAFT AFFECTED; CRAF

TO WIDE-BODY COMMERCIAL AIRCRAFT (B-747 AND/OR LC-1D). THE MODIFICATIONS INCLUDE THE ADDITION OF A SIDE CARGO DOOR, STRENGTHENED FREIGHTER FLOOR, AND REMOVABLE POWERED CARGO HANDLING SYSTEM. MODIFIED AIRCRAFT UTLL BE AVAILABLE FOR DOD USE THROUGH THE CIVIL RESERVE AIR FLEET. THEY WILL SUPPLEMENT OUR ORGANIC AIRLIFT CAPABILITY IN THE EVENT OF A NATIONAL EMERGENCY. THIS MODIFICATION REPLACES CURRENTLY INSTALLED WHF OMNI-DIRECTIONAL RANGE/INSTRUMENT LANDING SYSTEMS (VOR/ILS).

	PRIOR		FY-85		FY-86		FY-87		OUTYEAR		TOTAL		
ta transfer of the second of t	QTY	COST	311	COST	QTY	COST	. QTY	COST	QTY	COST	5.	TY	COST
	11	339.9	4	126.6	5	164.9						20	631.
ASIS FOR COST ESTIMATE;													
C-10	1	15.0										1	15.
747	10	324.9	4	126.6	5	164.9					·	19	616.
OTAL	11	337.9	4	126.6	5	164.9						20	631.

METHOD OF IMPLEMENTATION INSTALLATION -- CONTRACTOR FACILITY
LEAD TIME -- 18 MONTHS

* LESS THAN \$ 50,000

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